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**LEMBAR BERITA ACARA KONSULTASI DOSEN
PEMBIMBING KP STMIK ATMA LUHUR**

Nama Instansi KP	Sekolah Dasar Negeri 69 Pangkalpinang
Alamat Instansi	Jalan Bina Marga Kelurahan Asam Kecamatan Rangkui
Dosen Pembimbing	Okkita Rizan, M.Kom

NO	NIM	NAMA
1	0911500077	NIKEN LARASATI
2	0911500157	SARMINTO
3	0911500159	ZANIARTI

No	Tanggal	Materi yang dikonsultasikan	Paraf Dosen		
			Mhs1	Mhs2	Mhs3
1	24 Oktober 2012	Perkenalan dan Pembahasan tata cara Penulisan Bab 1 dan Bab 2			
2	02 November 2012	Pembahasan Bab 1 dan Bab 2			
3	09 November 2012	Pembahasan tata cara penulisan Bab 3 dan Bab 4			
4	23 November 2012	Pembahasan Bab 3 dan Bab 4 serta coding pada aplikasi			
5	30 November 2012	Pembahasan tata cara penulisan Bab 5 serta penambahan coding aplikasi			
6	12 Desember 2012	Pembahasan lanjutan Bab 3, Bab 4 dan Bab 5 serta uji coba aplikasi			
7	28 Desember 2012	Pembahasan penyusunan laporan KP keseluruhan			

Mahasiswa di atas telah melakukan bimbingan dengan jumlah materi yang telah mencukupi untuk diseminarkan.

Pangkalpinang, Januari 2013
Dosen Pembimbing KP

Okkita Rizan, M.Kom
NIDN 0211108306

**LEMBAR BERITA ACARA
KUNJUNGAN KP
Teknik Informatika-STMik Atma Luhur**

Nama Instansi KP	SD NEGERI 69 Pangkalpinang
Alamat Instansi	Jalan Bina Marga Kelurahan Asam Kecamatan Rangkui
Pembimbing Praktek	Rumondang Siahaan, S.Pd

NO	NIM	NAMA
1	0911500077	NIKEN LARASATI
2	0911500157	SARMINTO
3	0911500159	ZANIARTI

No	Tanggal	Materi yang dikonsultasikan	Paraf Pembimbing		
			Mhs1	Mhs2	Mhs3
1	22 Oktober 2012	Perkenalan sekaligus mengisi materi sejarah dan pengenalan Bahasa Mandarin tingkat dasar	R	R	R
2	05 November 2012	Melanjutkan materi pengenalan Bahasa Mandarin dan tata cara penulisan dan pengucapan Bahasa Mandarin	R	R	R
3	12 November 2012	Perkenalan dan tata cara penulisan angka 1-10 dalam Bahasa Mandarin sekaligus memberikan lagu	R	R	R
4	19 November 2012	Melanjutkan materi penulisan dan pengucapan angka 1-10 dan memberikan lagu serta mencari data tentang organisasi sekolah	R	R	R
5	26 November 2012	Tata cara penulisan dan pengucapan kosa kata mandarin dan uji coba aplikasi serta mengumpulkan data untuk keperluan KP	R	R	R
6	03 Desember 2012	Uji coba aplikasi dan wawancara kepada kepala sekolah untuk keperluan KP serta mencari studi pustaka	R	R	R
7	17 Desember 2012	Uji coba aplikasi	R	R	R

Pembimbing Praktek
17 Desember 2012



Rumondang Siahaan, S.Pd
NIP : 19650812 198804 2 004

```
1  /*
2  -----
3      Nama File      : Pembukaan.java
4      Dipanggil Oleh : -
5      Keterangan    : Program Splash dengan Logo dan Baris Progress serta diiringi dengan
suara
6      Dibuat Oleh   : SARMINTO NIM 0911500157
7      CP            : HP 081368580251, E-Mail sarminto_scorpio@yahoo.co.id, Blog
http://urangkite.blogspot.com
8  -----
9  */
10 import javax.swing.*;
11 import java.awt.*;
12 import java.awt.event.*;
13 import javax.sound.sampled.*;
14 import java.io.File;
15
16 public class Pembukaan extends JDialog
17 {
18     static File file;
19     static AudioInputStream stream;
20     static Clip music;
21     String mPath;
22
23     PathMusik mus=new PathMusik();
24     String Musicpath= mus.setThePath(mPath);
25
26     JPanel titlePanel=new JPanel();
27     JPanel picPanel=new JPanel();
28     JPanel statPanel=new JPanel();
29     JLabel lblStatus=new JLabel("LOADING");
30     JLabel lblNum=new JLabel("0");
31     JLabel lblPer=new JLabel("%");
32     String hPath;
33     int numInt;
34     int numPer;
35
36     public Pembukaan()
37     {
38         CursorMouse func=new CursorMouse();
39         func.MousePointerDialog(this);
40
41         file = new File(Musicpath + "pembukaan.wav");
42
43         titlePanel.setBackground(Color.WHITE);
44         picPanel.setBackground(Color.WHITE);
45         statPanel.setBackground(Color.WHITE);
46
47         PathGambar sPath=new PathGambar();
48         String path=sPath.setThePath(hPath);
49
50         JLabel lblPicBack=new JLabel(new ImageIcon( path + "background.jpg"));
51
52         picPanel.add(lblPicBack);
53
54         statPanel.setLayout(new FlowLayout());
55         lblStatus.setFont(new Font("OCR A Extended", Font.PLAIN, 14));
56         lblStatus.setForeground(Color.GRAY);
57         lblNum.setFont(new Font("OCR A Extended", Font.PLAIN, 14));
58         lblNum.setForeground(Color.GRAY);
59         lblPer.setFont(new Font("OCR A Extended", Font.PLAIN, 14));
60         lblPer.setForeground(Color.GRAY);
61         statPanel.add(lblStatus);
62         statPanel.add(lblNum);
63         statPanel.add(lblPer);
64         statPanel.setBackground(Color.DARK_GRAY);
65         setSize(570,480);
66         setLocation(300,50);
67         setVisible(true);
68
69         setResizable(false);
70         getContentPane().add(picPanel, BorderLayout.CENTER);
71         getContentPane().add(statPanel, BorderLayout.SOUTH);
72
73         Timer t = new Timer(120, new ActionListener()
74         {
```



```
75         public void actionPerformed(ActionEvent e)
76         {
77             numInt=Integer.parseInt(lblNum.getText());
78             numPer=numInt + 1;
79             lblNum.setText(Integer.toString(numPer));
80             if (lblNum.getText().equals("100"))
81             {
82                 dispose();
83                 MenuUtama menu=new MenuUtama();
84                 //stop();
85                 menu.setVisible(true);
86             }
87         }
88     });
89
90     t.start();
91
92     addWindowListener(new WindowAdapter()
93     {
94         public void windowClosing(WindowEvent we)
95         {
96             System.exit(0);
97         }
98     });
99 }
100
101 public void start() throws Exception
102 {
103     // SET UP
104
105     stream = AudioSystem.getAudioInputStream(file);
106     music = AudioSystem.getClip();
107
108     // PLAY
109
110     music.open(stream);
111     music.start();
112     //music.loop(Clip.LOOP_CONTINUOUSLY);
113 }
114
115 public void stop()
116 {
117     music.stop();
118     music.close();
119 }
120 public static void main(String[] args) throws Exception
121 {
122     Pembukaan game=new Pembukaan();
123     game.setTitle("Selamat Datang Diaplikasi Pelajaran Bahasa Mandarin Tingkat Dasar
124     game.setVisible(true);
125     game.start();
126 }
127 }
128 }
129 }
```

```
1  /*
2  -----
3      Nama File      : MenuUtama.java
4      Dipanggil Oleh : Pembukaan.java
5      Keterangan    : Berisi 3 menu, yaitu: mulai,tentang dan keluar
6      Dibuat Oleh   : SARMINTO NIM 0911500157
7      CP            : HP 081368580251, E-Mail sarminto_scorpio@yahoo.co.id, Blog
8      http://urangkite.blogspot.com
9      -----
10     */
11     import javax.swing.*;
12     import java.awt.*;
13     import java.awt.event.*;
14     import java.applet.AudioClip;
15     import java.net.URL;
16
17     public class MenuUtama extends JFrame
18     {
19         JPanel picPanel=new JPanel();
20         JPanel butPanel=new JPanel();
21         JPanel titlePanel=new JPanel();
22         JPanel sidePanel=new JPanel();
23         JPanel northPanel=new JPanel();
24         JPanel playPanel=new JPanel();
25         JPanel insPanel=new JPanel();
26         JPanel highPanel=new JPanel();
27         JPanel backPanel=new JPanel();
28         JPanel creditPanel=new JPanel();
29
30         JLabel lblUsername=new JLabel("Silahkan Isi Nama Anda, Selanjutnya pilih bagian yang
31 ingin Anda pelajari");
32         JTextField txtUsername=new JTextField(25);
33         String ins="";
34         String hPath;
35
36         PathGambar sPath=new PathGambar();
37         String path=sPath.setThePath(hPath);
38
39         JLabel lblMenu=new JLabel(new ImageIcon(path + "menu.gif"));
40         JLabel cmdIns=new JLabel(new ImageIcon(path + "ins.gif"));
41         JButton btnTentang =new JButton("TENTANG APLIKASI");
42         JButton btnKeluar =new JButton("KELUAR");
43         JLabel cmdHigh=new JLabel(new ImageIcon(path + "score.gif"));
44         JLabel lblPic=new JLabel(new ImageIcon( path + "kartun.gif"));
45         JLabel lblTitle=new JLabel(new ImageIcon( path + "bawah1.jpg"));
46         JLabel lblStat=new JLabel(new ImageIcon(path + "gamePage3.jpg"));
47         JLabel lblHighScore=new JLabel(new ImageIcon(path + "highScore.gif"));
48         JLabel lblCredit=new JLabel(new ImageIcon(path + "profil.jpg"));
49         JButton btnAngka =new JButton("ANGKA");
50         JButton btnTubuh =new JButton("TUBUH");
51         JButton btnHewan =new JButton("HEWAN");
52         JButton btnAlam =new JButton("ALAM");
53         JLabel cmdBack=new JLabel(new ImageIcon(path + "kembali.jpg"));
54
55         JLabel lblBorder1=new JLabel(new ImageIcon(path + "border.gif"));
56         JLabel lblBorder2=new JLabel(new ImageIcon(path + "border.gif"));
57         JLabel lblWarning =new JLabel("          Enter your User Name          ");
58
59         public MenuUtama()
60         {
61             JButton btnPlay;
62             ButtonHandler listener = new ButtonHandler();
63             btnPlay = new JButton("MULAI");
64             btnPlay.addActionListener(listener);
65             btnPlay.setBackground(Color.red);
66             btnPlay.setFont(new Font ("TAHOMA",1,24));
67             add(btnPlay);
68
69             btnTentang.setBackground(Color.yellow);
70             btnTentang.setFont(new Font ("TAHOMA",1,24));
71             btnKeluar.setBackground(Color.green);
72             btnKeluar.setFont(new Font ("TAHOMA",1,24));
73             btnHewan.setBackground(Color.cyan);
74             btnHewan.setFont(new Font ("TAHOMA",1,18));
75             btnAngka.setBackground(Color.lightGray);
76             btnAngka.setFont(new Font ("TAHOMA",1,18));
```

```
75         btnTubuh.setBackground(Color.magenta);
76         btnTubuh.setFont(new Font ("TAHOMA",1,18));
77         btnAlam.setBackground(Color.pink);
78         btnAlam.setFont(new Font ("TAHOMA",1,18));
79
80     CursorMouse func=new CursorMouse();
81     func.MousePointer(this);
82
83     playPanel.setBackground(Color.WHITE);
84     sidePanel.setBackground(Color.WHITE);
85     playPanel.setVisible(false);
86     insPanel.setBackground(Color.WHITE);
87     insPanel.setVisible(false);
88     picPanel.setBackground(Color.WHITE);
89     butPanel.setBackground(Color.WHITE);
90     sidePanel.setBackground(Color.WHITE);
91     northPanel.setBackground(Color.WHITE);
92     titlePanel.setBackground(Color.WHITE);
93     highPanel.setBackground(Color.WHITE);
94     highPanel.setVisible(false);
95     backPanel.setBackground(Color.WHITE);
96     creditPanel.setBackground(Color.WHITE);
97     creditPanel.setVisible(false);
98
99     titlePanel.add(lblPic);
100    picPanel.add(lblTitle);
101    lblWarning.setVisible(false);
102
103    butPanel.setLayout(new GridLayout(3,3,4,3)); //(besarnya button,tebal
button,.....)
104    butPanel.add(btnPlay);
105    butPanel.add(btnTentang);
106    butPanel.add(btnKeluar);
107
108    northPanel.setLayout(new FlowLayout());
109
110    lblUsername.setFont(new Font("OCR A Extended", Font.BOLD, 14));
111    txtUsername.setFont(new Font("Tahoma", Font.BOLD, 14));
112    txtUsername.setForeground(Color.BLUE);
113
114    lblUsername.setForeground(Color.BLACK);
115    lblWarning.setFont(new Font("OCR A Extended", Font.BOLD, 14));
116    lblWarning.setForeground(Color.BLUE);
117
118
119    northPanel.add(lblStat);
120
121    getContentPane().add(BorderLayout.NORTH,titlePanel);
122    getContentPane().add(BorderLayout.WEST,picPanel);
123    getContentPane().add(BorderLayout.EAST,sidePanel);
124    getContentPane().add(BorderLayout.CENTER,butPanel);
125    getContentPane().add(BorderLayout.SOUTH,northPanel);
126    setSize(850,550);
127    setResizable(false);
128    setLocation(100,25);
129
130    btnPlay.addActionListener (new ActionListener()
131    {
132        public void actionPerformed(ActionEvent e)
133        {
134            butPanel.setVisible(false);
135            playPanel.setVisible(true);
136            insPanel.setVisible(false);
137            highPanel.setVisible(false);
138            creditPanel.setVisible(false);
139
140            playPanel.setLayout(new FlowLayout());
141            playPanel.add(lblUsername);
142            playPanel.add(txtUsername);
143            playPanel.add(btnAngka);
144            playPanel.add(btnHewan);
145            playPanel.add(btnTubuh);
146            playPanel.add(btnAlam);
147            playPanel.add(cmdBack);
148            playPanel.add(lblWarning);
149            getContentPane().add(BorderLayout.CENTER,playPanel);
150
151        }
```

```
152         });
153
154     btnAngka.addActionListener (new ActionListener()
155     {
156         public void actionPerformed(ActionEvent e)
157         {
158
159             if (txtUsername.getText().equals(null))
160             {
161                 lblWarning.setVisible(true);
162             }
163             else
164             {
165                 Angka caseGame=new Angka();
166                 caseGame.lblUserName.setText(txtUsername.getText());
167                 caseGame.setVisible(true);
168                 dispose();
169             }
170
171         }
172     });
173
174     btnHewan.addActionListener (new ActionListener()
175     {
176         public void actionPerformed(ActionEvent e)
177         {
178
179             if (txtUsername.getText().equals(null))
180             {
181                 lblWarning.setVisible(true);
182             }
183             else
184             {
185                 Hewan caseGame=new Hewan();
186                 caseGame.lblUserName.setText(txtUsername.getText());
187                 caseGame.setVisible(true);
188                 dispose();
189             }
190
191
192
193         }
194     });
195
196     btnTubuh.addActionListener (new ActionListener()
197     {
198         public void actionPerformed(ActionEvent e)
199         {
200
201             if (txtUsername.getText().equals(null))
202             {
203                 lblWarning.setVisible(true);
204             }
205             else
206             {
207                 Tubuh caseGame=new Tubuh();
208                 caseGame.lblUserName.setText(txtUsername.getText());
209                 caseGame.setVisible(true);
210                 dispose();
211             }
212
213
214
215         }
216     });
217
218     btnAlam.addActionListener (new ActionListener()
219     {
220         public void actionPerformed(ActionEvent e)
221         {
222
223             if (txtUsername.getText().equals(null))
224             {
225                 lblWarning.setVisible(true);
226             }
227             else
228             {
229                 Alam caseGame=new Alam();
```



```
230         caseGame.lblUserName.setText(txtUsername.getText());
231         caseGame.setVisible(true);
232         dispose();
233     }
234
235
236
237     }
238 });
239
240
241
242 cmdBack.addMouseListener(new MouseAdapter()
243 {
244     public void mouseClicked(MouseEvent e)
245     {
246
247         butPanel.setVisible(true);
248         playPanel.setVisible(false);
249         insPanel.setVisible(false);
250         highPanel.setVisible(false);
251         creditPanel.setVisible(false);
252
253     }
254 });
255
256 cmdIns.addMouseListener(new MouseAdapter()
257 {
258     public void mouseClicked(MouseEvent e)
259     {
260         insPanel.setVisible(true);
261         butPanel.setVisible(false);
262         playPanel.setVisible(false);
263         highPanel.setVisible(false);
264         creditPanel.setVisible(false);
265         insPanel.setLayout(new FlowLayout());
266         //insPanel.add(lblIns);
267         insPanel.add(cmdBack);
268         getContentPane().add(BorderLayout.CENTER, insPanel);
269
270     }
271 });
272
273
274 cmdHigh.addMouseListener(new MouseAdapter()
275 {
276     public void mouseClicked(MouseEvent e)
277     {
278         insPanel.setVisible(false);
279         butPanel.setVisible(false);
280         playPanel.setVisible(false);
281         highPanel.setVisible(true);
282         creditPanel.setVisible(false);
283
284         highPanel.add(lblHighScore);
285
286         highPanel.add(BorderLayout.SOUTH, backPanel);
287         backPanel.add(cmdBack);
288         getContentPane().add(BorderLayout.CENTER, highPanel);
289
290     }
291 });
292
293 btnTentang.addActionListener (new ActionListener()
294 {
295     public void actionPerformed(ActionEvent e)
296     {
297         creditPanel.setVisible(true);
298         butPanel.setVisible(false);
299         playPanel.setVisible(false);
300         insPanel.setVisible(false);
301         highPanel.setVisible(false);
302
303         creditPanel.setLayout(new FlowLayout());
304         creditPanel.add(lblCredit);
305         creditPanel.add(cmdBack);
306         getContentPane().add(BorderLayout.CENTER, creditPanel);
307     }
```

```
308         });
309
310     btnKeluar.addActionListener (new ActionListener()
311     {
312         public void actionPerformed(ActionEvent e)
313         {
314             System.exit(0);
315         }
316     });
317
318
319     btnPlay.addActionListener (new ActionListener()
320     {
321         public void actionPerformed(ActionEvent e)
322         {
323             //cmdPlay.setIcon( new ImageIcon(path + "playMenu2.gif") );
324         }
325     });
326
327
328     btnPlay.addActionListener (new ActionListener()
329     {
330         public void actionPerformed(ActionEvent e)
331         {
332             //cmdPlay.setIcon( new ImageIcon(path + "playMenu.gif") );
333         }
334     });
335
336     cmdIns.addMouseListener(new MouseAdapter()
337     {
338         public void mouseEntered(MouseEvent arg0)
339         {
340             cmdIns.setIcon( new ImageIcon(path + "ins2.gif") );
341         }
342     });
343
344
345     cmdIns.addMouseListener(new MouseAdapter()
346     {
347         public void mouseExited(MouseEvent arg0)
348         {
349             cmdIns.setIcon( new ImageIcon(path + "ins.gif") );
350         }
351     });
352
353     cmdHigh.addMouseListener(new MouseAdapter()
354     {
355         public void mouseEntered(MouseEvent arg0)
356         {
357             cmdHigh.setIcon( new ImageIcon(path + "score2.gif") );
358         }
359     });
360
361
362     cmdHigh.addMouseListener(new MouseAdapter()
363     {
364         public void mouseExited(MouseEvent arg0)
365         {
366             cmdHigh.setIcon( new ImageIcon(path + "score.gif") );
367         }
368     });
369
370     // cmdCre.addMouseListener(new MouseAdapter()
371     // {
372     //     public void mouseEntered(MouseEvent arg0)
373     //     {
374     //         cmdCre.setIcon( new ImageIcon(path + "credit2.gif") );
375     //     }
376     // });
377     //
378
379     btnTentang.addActionListener (new ActionListener()
380     {
381         public void actionPerformed(ActionEvent e)
382         {
383             //cmdCre.setIcon( new ImageIcon(path + "credit.gif") );
384             //btnTentang.setBackground(Color.yellow);
385         }
386     });
```

```
386     });
387     /*
388     cmdExit.addMouseListener(new MouseAdapter()
389     {
390         public void mouseEntered(MouseEvent arg0)
391         {
392             cmdExit.setIcon( new ImageIcon(path + "exitMenu2.gif") );
393         }
394     });
395
396     cmdExit.addMouseListener(new MouseAdapter()
397     {
398         public void mouseExited(MouseEvent arg0)
399         {
400             cmdExit.setIcon( new ImageIcon(path + "exitMenu.gif") );
401         }
402     });
403
404     */
405     btnAngka.addActionListener (new ActionListener()
406     {
407         public void actionPerformed(ActionEvent e)
408         {
409             //btnAngka.setIcon( new ImageIcon(path + "angka.jpg") );
410         }
411     });
412
413     btnAngka.addActionListener (new ActionListener()
414     {
415         public void actionPerformed(ActionEvent e)
416         {
417             //btnAngka.setIcon( new ImageIcon(path + "angka.jpg") );
418         }
419     });
420
421
422
423
424
425
426     btnHewan.addActionListener (new ActionListener()
427     {
428         public void actionPerformed(ActionEvent e)
429         {
430             //btnHewan.setIcon( new ImageIcon(path + "hewan.jpg") );
431         }
432     });
433
434
435     btnHewan.addActionListener (new ActionListener()
436     {
437         public void actionPerformed(ActionEvent e)
438         {
439             //btnHewan.setIcon( new ImageIcon(path + "hewan.jpg") );
440         }
441     });
442
443
444
445
446
447     btnTubuh.addActionListener (new ActionListener()
448     {
449         public void actionPerformed(ActionEvent e)
450         {
451             //btnTubuh.setIcon( new ImageIcon(path + "tubuh.jpg") );
452         }
453     });
454
455
456     btnTubuh.addActionListener (new ActionListener()
457     {
458         public void actionPerformed(ActionEvent e)
459         {
460             //btnTubuh.setIcon( new ImageIcon(path + "tubuh.jpg") );
461         }
462     });
463
```

```
464
465
466
467
468
469     btnAlam.addActionListener (new ActionListener()
470     {
471         public void actionPerformed(ActionEvent e)
472         {
473             //btnAlam.setIcon( new ImageIcon(path + "alam.jpg") );
474         }
475     });
476
477
478     btnAlam.addActionListener (new ActionListener()
479     {
480         public void actionPerformed(ActionEvent e)
481         {
482             // btnAlam.setIcon( new ImageIcon(path + "alam.jpg") );
483         }
484     });
485
486
487
488
489     cmdBack.addMouseListener(new MouseAdapter()
490     {
491         public void mouseEntered(MouseEvent arg0)
492         {
493             cmdBack.setIcon( new ImageIcon(path + "kembali1.jpg") );
494         }
495     });
496
497
498     cmdBack.addMouseListener(new MouseAdapter()
499     {
500         public void mouseExited(MouseEvent arg0)
501         {
502             cmdBack.setIcon( new ImageIcon(path + "kembali.jpg") );
503         }
504     });
505
506     addWindowListener(new WindowAdapter()
507     {
508         public void windowClosing(WindowEvent we)
509         {
510             System.exit(0);
511         }
512     });
513
514 }
515
516
517 private class ButtonHandler implements ActionListener {
518
519     public void actionPerformed(ActionEvent evt) {
520         String command = evt.getActionCommand();
521         if (command.equals("MULAI")) {
522             playAudioResource("welcome.WAV");
523         } else if (command.equals("ANGKA")) {
524             playAudioResource("BEAM.WAV");
525         } else if (command.equals("BEAM")) {
526             playAudioResource("BEAM.WAV");
527         } else if (command.equals("BEAM")) {
528             playAudioResource("BEAM.WAV");
529         } else if (command.equals("BEAM")) {
530             playAudioResource("BEAM.WAV");
531         }
532         if (command.startsWith("Play")) {
533             setCursor(Cursor.getDefaultCursor());
534         }
535     }
536 }
537
538 private void playAudioResource(String audioResourceName) {
539     ClassLoader cl = MenuUtama.class.getClassLoader();
540     URL resourceURL = cl.getResource(audioResourceName);
541     if (resourceURL != null) {
```

```
542         AudioClip sound = JApplet.newAudioClip(resourceURL);
543         sound.play();
544     }
545 }
546 /*
547 private void useCustomCursor(String imageResourceName) {
548     ClassLoader cl = ButtonGroup.class.getClassLoader();
549     URL resourceURL = cl.getResource(imageResourceName);
550     if (resourceURL != null) {
551         Toolkit toolkit = Toolkit.getDefaultToolkit();
552         Image image = toolkit.createImage(resourceURL);
553         Point hotSpot = new Point(7, 7);
554         Cursor cursor = toolkit.createCustomCursor(image, hotSpot, "smiley");
555         setCursor(cursor);
556     }
557 }*/
558
559 public static void main(String[] args) throws Exception
560 {
561
562     MenuUtama game=new MenuUtama();
563     game.setTitle("Menu Utama");
564     game.setVisible(true);
565
566
567 }
568
569 }
570
571
```



```
1  /*
2  -----
3      Nama File      : Hewan.java
4      Dipanggil Oleh : MenuUtama.java
5      Keterangan     : Pengenalan hewan yang akan dipelajari
6      Dibuat Oleh    : SARMINTO 0911500157
7      CP             : HP 081368580251, E-Mail sarminto_scorpio@yahoo.co.id, Blog
      http://urangkite.blogspot.com
8  -----
9  */
10 import javax.swing.*;
11 import java.awt.*;
12 import java.awt.event.*;
13
14 public class Hewan extends JFrame
15 {
16     JPanel northPanel=new JPanel();
17     JPanel westPanel=new JPanel();
18     JPanel eastPanel=new JPanel();
19     JPanel centerPanel=new JPanel();
20     JPanel southPanel=new JPanel();
21
22     String hPath;
23
24
25     PathGambar sPath=new PathGambar();
26     String path=sPath.setThePath(hPath);
27     JLabel lblPicCase=new JLabel(new ImageIcon(path+"binatang1.jpg"));
28     JLabel cmdGame =new JLabel(new ImageIcon(path + "selanjutnya.jpg"));
29     JLabel lblUserName=new JLabel();
30
31
32     public Hewan()
33     {
34         CursorMouse func=new CursorMouse();
35         func.MousePointer(this);
36
37         southPanel.setBackground(Color.WHITE);
38         centerPanel.setBackground(Color.WHITE);
39         eastPanel.setBackground(Color.WHITE);
40         westPanel.setBackground(Color.WHITE);
41         northPanel.setBackground(Color.WHITE);
42
43         centerPanel.add(lblPicCase);
44         southPanel.add(cmdGame);
45         westPanel.add(lblUserName);
46
47
48         setSize(850,550);
49         setVisible(true);
50         setResizable(false);
51         setLocation(100,25);
52         getContentPane().add(BorderLayout.CENTER,centerPanel);
53         getContentPane().add(BorderLayout.SOUTH,southPanel);
54         getContentPane().add(BorderLayout.NORTH,northPanel);
55
56         cmdGame.addMouseListener(new MouseAdapter()
57         {
58             public void mouseEntered(MouseEvent arg0)
59             {
60                 cmdGame.setIcon( new ImageIcon(path + "selanjutnyal.jpg") );
61             }
62         });
63
64         cmdGame.addMouseListener(new MouseAdapter()
65         {
66             public void mouseExited(MouseEvent arg0)
67             {
68                 cmdGame.setIcon( new ImageIcon(path + "selanjutnya.jpg") );
69             }
70         });
71
72         cmdGame.addMouseListener(new MouseAdapter()
73         {
74             public void mouseClicked(MouseEvent e)
```

```
76         {
77             BelajarHewan game=new BelajarHewan();
78             game.lblUserName.setText(lblUserName.getText());
79             dispose();
80             game.setVisible(true);
81         }
82     });
83 }
84
85 addWindowListener(new WindowAdapter()
86 {
87     public void windowClosing(WindowEvent we)
88     {
89         System.exit(0);
90     }
91 });
92
93 }
94
95 public static void main(String[] args)
96 {
97     Hewan game=new Hewan();
98     game.setTitle("Pelajaran Mengenal Hewan");
99     game.setVisible(true);
100 }
101
102 }
103
```

```
1  /*
2  -----
3      Nama File      : Alam.java
4      Dipanggil Oleh : MenuUtama.java
5      Keterangan    : Pengenalan alam yang akan dipelajari
6      Dibuat Oleh   : SARMINTO NIM 0911500157
7      CP            : HP 081368580251, E-Mail sarminto_scorpio@yahoo.co.id, Blog
8      http://urangkite.blogspot.com
9  -----
10 */
11 import javax.swing.*;
12 import java.awt.*;
13 import java.awt.event.*;
14
15 public class Alam extends JFrame
16 {
17     JPanel northPanel=new JPanel();
18     JPanel westPanel=new JPanel();
19     JPanel eastPanel=new JPanel();
20     JPanel centerPanel=new JPanel();
21     JPanel southPanel=new JPanel();
22
23     String hPath;
24
25     PathGambar sPath=new PathGambar();
26     String path=sPath.setThePath(hPath);
27     JLabel lblPicCase=new JLabel(new ImageIcon(path+"backgroundalam.jpg"));
28     JLabel cmdGame =new JLabel(new ImageIcon(path + "selanjutnya.jpg"));
29     JLabel lblUserName=new JLabel();
30
31
32     public Alam()
33     {
34         CursorMouse func=new CursorMouse();
35         func.MousePointer(this);
36
37         southPanel.setBackground(Color.WHITE);
38         centerPanel.setBackground(Color.WHITE);
39         eastPanel.setBackground(Color.WHITE);
40         westPanel.setBackground(Color.WHITE);
41         northPanel.setBackground(Color.WHITE);
42
43         centerPanel.add(lblPicCase);
44         southPanel.add(cmdGame);
45         westPanel.add(lblUserName);
46
47
48         setSize(850,550);
49         setVisible(true);
50         setResizable(false);
51         setLocation(100,25);
52         getContentPane().add(BorderLayout.CENTER,centerPanel);
53         getContentPane().add(BorderLayout.SOUTH,southPanel);
54         getContentPane().add(BorderLayout.NORTH,northPanel);
55
56         cmdGame.addMouseListener(new MouseAdapter()
57         {
58             public void mouseEntered(MouseEvent arg0)
59             {
60                 cmdGame.setIcon( new ImageIcon(path + "selanjutnyal.jpg") );
61             }
62         });
63
64         cmdGame.addMouseListener(new MouseAdapter()
65         {
66             public void mouseExited(MouseEvent arg0)
67             {
68                 cmdGame.setIcon( new ImageIcon(path + "selanjutnya.jpg") );
69             }
70         });
71
72         cmdGame.addMouseListener(new MouseAdapter()
73         {
74             public void mouseClicked(MouseEvent e)
```

```
76         {
77             BelajarAlam game=new BelajarAlam();
78             game.lblUserName.setText(lblUserName.getText());
79             dispose();
80             game.setVisible(true);
81         }
82     });
83 }
84
85 addWindowListener(new WindowAdapter()
86 {
87     public void windowClosing(WindowEvent we)
88     {
89         System.exit(0);
90     }
91 });
92
93 }
94
95 public static void main(String[] args)
96 {
97     Alam game=new Alam();
98     game.setTitle("Pelajaran Mengenal Alam");
99     game.setVisible(true);
100 }
101
102 }
103
```

```
1  /*
2  -----
3      Nama File      : Angka.java
4      Dipanggil Oleh : MenuUtama.java
5      Keterangan     : Pengenalan angka yang akan dipelajari
6      Dibuat Oleh    : SARMINTO NIM 0911500157
7      CP             : HP 081368580251, E-Mail sarminto_scorpio@yahoo.co.id, Blog
8      http://urangkite.blogspot.com
9  -----
10 */
11 import javax.swing.*;
12 import java.awt.*;
13 import java.awt.event.*;
14
15 public class Angka extends JFrame
16 {
17     JPanel northPanel=new JPanel();
18     JPanel westPanel=new JPanel();
19     JPanel eastPanel=new JPanel();
20     JPanel centerPanel=new JPanel();
21     JPanel southPanel=new JPanel();
22
23     String hPath;
24
25     PathGambar sPath=new PathGambar();
26     String path=sPath.setThePath(hPath);
27     JLabel lblPicCase=new JLabel(new ImageIcon(path+"hitung.jpg"));
28     JLabel lblNorth=new JLabel(new ImageIcon(path+"anak.jpeg"));
29     JLabel cmdGame =new JLabel(new ImageIcon(path + "selanjutnya.jpg"));
30     JLabel lblUserName=new JLabel();
31
32     public Angka()
33     {
34         CursorMouse func=new CursorMouse();
35         func.MousePointer(this);
36
37         southPanel.setBackground(Color.WHITE);
38         centerPanel.setBackground(Color.WHITE);
39         eastPanel.setBackground(Color.WHITE);
40         westPanel.setBackground(Color.WHITE);
41         northPanel.setBackground(Color.WHITE);
42
43         centerPanel.add(lblPicCase);
44         northPanel.add(lblNorth);
45         southPanel.add(cmdGame);
46         westPanel.add(lblUserName);
47
48
49         setSize(850,550);
50         setVisible(true);
51         setResizable(false);
52         setLocation(100,25);
53         getContentPane().add(BorderLayout.CENTER,centerPanel);
54         getContentPane().add(BorderLayout.SOUTH,southPanel);
55         getContentPane().add(BorderLayout.NORTH,northPanel);
56
57         cmdGame.addMouseListener(new MouseAdapter()
58         {
59             public void mouseEntered(MouseEvent arg0)
60             {
61                 cmdGame.setIcon( new ImageIcon(path + "selanjutnya1.jpg") );
62             }
63         });
64
65         cmdGame.addMouseListener(new MouseAdapter()
66         {
67             public void mouseExited(MouseEvent arg0)
68             {
69                 cmdGame.setIcon( new ImageIcon(path + "selanjutnya.jpg") );
70             }
71         });
72
73         cmdGame.addMouseListener(new MouseAdapter()
74         {
75
```



```
76         public void mouseClicked(MouseEvent e)
77         {
78             BelajarAngka game=new BelajarAngka();
79             game.lblUserName.setText(lblUserName.getText());
80             dispose();
81             game.setVisible(true);
82         }
83     });
84
85     addWindowListener(new WindowAdapter()
86     {
87         public void windowClosing(WindowEvent we)
88         {
89             System.exit(0);
90         }
91     });
92
93 }
94
95 public static void main(String[] args)
96 {
97     Angka game=new Angka();
98     game.setTitle("Pelajaran Mengenal Angka");
99     game.setVisible(true);
100 }
101
102 }
103 }
104
```

```
1  /*
2  -----
3      Nama File      : BelajarAlam.java
4      Dipanggil Oleh : Alam.java
5      Keterangan    : Berisi pelajaran mengenai alam
6      Dibuat Oleh   : SARMINTO NIM 0911500157
7      CP            : HP 081368580251, E-Mail sarminto_scorpio@yahoo.co.id, Blog
8      http://urangkite.blogspot.com
9  -----
10 */
11 import javax.swing.*;
12 import java.awt.*;
13 import java.awt.event.*;
14 import javax.swing.border.Border;
15 import java.applet.AudioClip;
16 import java.net.URL;
17
18 public class BelajarAlam extends JFrame
19 {
20     String mPath;
21
22     PathMusik mus=new PathMusik();
23     String Musicpath= mus.setThePath(mPath);
24
25     JPanel northPanel=new JPanel();
26     JPanel westPanel=new JPanel();
27     JPanel centerPanel=new JPanel();
28     JPanel eastPanel=new JPanel();
29     JPanel southPanel=new JPanel();
30     JPanel southWestPanel=new JPanel();
31     JPanel southCenterPanel=new JPanel();
32     JPanel westPicPanel=new JPanel();
33     JLabel lblUserName=new JLabel(" ",JLabel.CENTER);
34     JSeparator line=new JSeparator();
35     Timer t;
36
37     JLabel handlerAns=new JLabel("0");
38     int handler;
39     int holder;
40
41
42     String hPath;
43     int numInt;
44     int numPer;
45
46     PathGambar sPath=new PathGambar();
47     String path=sPath.setThePath(hPath);
48
49     JLabel lblPause=new JLabel(new ImageIcon(path+"latihan.gif"));
50     JLabel lblExit=new JLabel(new ImageIcon(path+"menu.jpg"));
51     JLabel lblPic=new JLabel(new ImageIcon( path + "12.jpg"));
52     JLabel lblGamePic=new JLabel(new ImageIcon(path + "papantulis.png"));
53     JLabel lblSPic=new JLabel(new ImageIcon( path + "orang.gif"));
54     JLabel lblPic1=new JLabel();
55     JLabel lblPic2=new JLabel();
56     JLabel lblPic3=new JLabel();
57
58     JLabel lblHolderEPic=new JLabel(new ImageIcon(path + "kanan.jpg"));
59     JLabel lblPlay=new JLabel(new ImageIcon(path + "play.gif"));
60
61
62
63     public BelajarAlam()
64     {
65         JButton btn1;
66         JButton btn2;
67         JButton btn3;
68         JButton btn4;
69         JButton btn5;
70         JButton btn6;
71         ButtonHandler listener = new ButtonHandler();
72         btn1 = new JButton("KAYU");
73         btn1.addActionListener(listener);
74         btn1.setBackground(Color.magenta);
75         add(btn1);
```

```
76         btn2 = new JButton("MATAHARI");
77         btn2.addActionListener(listener);
78             btn2.setBackground(Color.lightGray);
79         add(btn2);
80         btn3 = new JButton("BULAN");
81         btn3.addActionListener(listener);
82             btn3.setBackground(Color.yellow);
83         add(btn3);
84         btn4 = new JButton("GUNUNG");
85         btn4.addActionListener(listener);
86             btn4.setBackground(Color.orange);
87         add(btn4);
88         btn5 = new JButton("AIR");
89         btn5.addActionListener(listener);
90             btn5.setBackground(Color.red);
91         add(btn5);
92         btn6 = new JButton("API");
93         btn6.addActionListener(listener);
94             btn6.setBackground(Color.pink);
95         add(btn6);
96
97         CursorMouse func=new CursorMouse();
98         func.MousePointer(this);
99
100        northPanel.setBackground(Color.WHITE);
101        westPanel.setBackground(Color.WHITE);
102        centerPanel.setBackground(Color.WHITE);
103        southPanel.setBackground(Color.WHITE);
104        eastPanel.setBackground(Color.WHITE);
105        southWestPanel.setBackground(Color.WHITE);
106        southCenterPanel.setBackground(Color.WHITE);
107        westPicPanel.setBackground(Color.WHITE);
108
109        lblUserName.setFont(new Font("OCR A Extended", Font.BOLD, 20));
110        lblUserName.setForeground(Color.RED);
111        northPanel.add(lblPic);
112
113
114        lblGamePic.add(lblPic1);
115        lblGamePic.add(lblPic2);
116        lblGamePic.add(lblPic3);
117
118        lblGamePic.add(btn1);
119        lblGamePic.add(btn2);
120        lblGamePic.add(btn3);
121        lblGamePic.add(btn4);
122        lblGamePic.add(btn5);
123        lblGamePic.add(btn6);
124        lblGamePic.add(lblUserName);
125        lblPic1.setBounds(460,85,95,80);//80=panjang x label,80=lebar y label, 440=layar
kiri kanan, 85 layar atas bawah
126        lblPic2.setBounds(20,65,150,200);//150=panjang x label,200=lebar y label, 30=lay
kiri kanan, 65 layar atas bawah
127        lblPic3.setBounds(200,100,250,200);
128
129
130        btn1.setBounds(10,20,100,50);
131        btn2.setBounds(103,20,100,50);
132        btn3.setBounds(197,20,100,50);
133        btn4.setBounds(289,20,100,50);
134        btn5.setBounds(381,20,100,50);
135        btn6.setBounds(473,20,100,50);
136        westPanel.add(westPicPanel);
137        westPanel.add(lblGamePic);
138
139        lblHolderEPic.add(lblPause);
140        lblHolderEPic.add(lblPlay);
141        lblHolderEPic.add(lblExit);
142
143        lblUserName.setBounds(40,360,500,180);
144        lblPause.setBounds(80,20,100,80);
145        lblPlay.setBounds(80,90,100,30);
146        lblPlay.setVisible(false);
147        lblExit.setBounds(80,90,100,80);
148
149        centerPanel.add(lblHolderEPic);
150
151        lblSPic.setBounds(100,0,155,110);
```

```
152         getContentPane().add(BorderLayout.NORTH,northPanel);
153         getContentPane().add(BorderLayout.WEST,westPanel);
154
155         setTitle("Pelajaran 4 : Menenal Alam");
156         setLocation(100,25);
157         setSize(850,550);
158         setResizable(false);
159
160         getContentPane().add(BorderLayout.NORTH,northPanel);
161         getContentPane().add(BorderLayout.WEST,westPanel);
162         getContentPane().add(BorderLayout.CENTER,centerPanel);
163         getContentPane().add(BorderLayout.EAST,eastPanel);
164         getContentPane().add(BorderLayout.SOUTH,southPanel);
165
166
167         btn1.addActionListener (new ActionListener()
168
169     {
170         public void actionPerformed(ActionEvent e)
171         {
172             lblPic2.setIcon( new ImageIcon(path + "kayu.gif" ) );
173             lblPic3.setIcon( new ImageIcon(path + "06kayu.gif" ) );
174             lblPic1.setIcon( new ImageIcon(path + "pinyinkayu.gif" ) );
175         }
176     });
177
178         btn2.addActionListener (new ActionListener()
179     {
180         public void actionPerformed(ActionEvent e)
181         {
182             lblPic2.setIcon( new ImageIcon(path + "matahari.gif" ) );
183             lblPic3.setIcon( new ImageIcon(path + "01matahari.gif" ) );
184             lblPic1.setIcon( new ImageIcon(path + "pinyinmatahari.gif" ) );
185         }
186     });
187
188         btn3.addActionListener (new ActionListener()
189     {
190         public void actionPerformed(ActionEvent e)
191         {
192             lblPic2.setIcon( new ImageIcon(path + "bulan.gif" ) );
193             lblPic3.setIcon( new ImageIcon(path + "02bulan.gif" ) );
194             lblPic1.setIcon( new ImageIcon(path + "pinyinbulan.gif" ) );
195         }
196     });
197
198         btn4.addActionListener (new ActionListener()
199     {
200         public void actionPerformed(ActionEvent e)
201         {
202             lblPic2.setIcon( new ImageIcon(path + "gunung.gif" ) );
203             lblPic3.setIcon( new ImageIcon(path + "03gunung.gif" ) );
204             lblPic1.setIcon( new ImageIcon(path + "pinyingunung.gif" ) );
205         }
206     });
207
208         btn5.addActionListener (new ActionListener()
209     {
210         public void actionPerformed(ActionEvent e)
211         {
212             lblPic2.setIcon( new ImageIcon(path + "air.gif" ) );
213             lblPic3.setIcon( new ImageIcon(path + "04air.gif" ) );
214             lblPic1.setIcon( new ImageIcon(path + "pinyinair.gif" ) );
215         }
216     });
217
218
219         btn6.addActionListener (new ActionListener()
220     {
221         public void actionPerformed(ActionEvent e)
222         {
223             lblPic2.setIcon( new ImageIcon(path + "api.gif" ) );
224             lblPic3.setIcon( new ImageIcon(path + "05api.gif" ) );
225             lblPic1.setIcon( new ImageIcon(path + "pinyinapi.gif" ) );
226         }
227     });
228
229
```

```
230         lblPause.addMouseListener(new MouseAdapter()  
231     {  
232         public void mouseClicked(MouseEvent e)  
233         {  
234             dispose();  
235             LatihanAlam menu=new LatihanAlam();  
236             menu.setVisible(true);  
237         }  
238     }  
239 });  
240  
241 lblExit.addMouseListener(new MouseAdapter()  
242 {  
243     public void mouseClicked(MouseEvent e)  
244     {  
245         dispose();  
246         MenuUtama menu=new MenuUtama();  
247         menu.setVisible(true);  
248     }  
249 }  
250 });  
251  
252 lblPause.addMouseListener(new MouseAdapter()  
253 {  
254     public void mouseEntered(MouseEvent arg0)  
255     {  
256         lblPause.setIcon( new ImageIcon(path + "latihan1.gif" ) );  
257     }  
258 }  
259 });  
260  
261 lblPause.addMouseListener(new MouseAdapter()  
262 {  
263     public void mouseExited(MouseEvent arg0)  
264     {  
265         lblPause.setIcon( new ImageIcon(path + "latihan.gif" ) );  
266     }  
267 }  
268 });  
269  
270 lblExit.addMouseListener(new MouseAdapter()  
271 {  
272     public void mouseEntered(MouseEvent arg0)  
273     {  
274         lblExit.setIcon( new ImageIcon(path + "menu1.jpg" ) );  
275     }  
276 }  
277 });  
278  
279 lblExit.addMouseListener(new MouseAdapter()  
280 {  
281     public void mouseExited(MouseEvent arg0)  
282     {  
283         lblExit.setIcon( new ImageIcon(path + "menu.jpg" ) );  
284     }  
285 }  
286 });  
287  
288 lblPlay.addMouseListener(new MouseAdapter()  
289 {  
290     public void mouseEntered(MouseEvent arg0)  
291     {  
292         lblPlay.setIcon( new ImageIcon(path + "play2.gif" ) );  
293     }  
294 }  
295 });  
296  
297 lblPlay.addMouseListener(new MouseAdapter()  
298 {  
299     public void mouseExited(MouseEvent arg0)  
300     {  
301         lblPlay.setIcon( new ImageIcon(path + "play.gif" ) );  
302     }  
303 }  
304 });  
305  
306 lblPlay.addMouseListener(new MouseAdapter()  
307 {  
308     public void mouseClicked(MouseEvent e)  
309     {  
310         //t.start();  
311     }  
312 }  
313 });
```



```
308         lblGamePic.setVisible(true);
309         lblPause.setVisible(true);
310         lblPlay.setVisible(false);
311     }
312
313 });
314
315 addWindowListener(new WindowAdapter()
316 {
317     public void windowClosing(WindowEvent we)
318     {
319         System.exit(0);
320     }
321 });
322
323 }
324
325
326 private class ButtonHandler implements ActionListener {
327
328     public void actionPerformed(ActionEvent evt) {
329         String command = evt.getActionCommand();
330         if (command.equals("KAYU")) {
331             playAudioResource("06kayu.WAV");
332         } else if (command.equals("MATAHARI")) {
333             playAudioResource("01matahari.WAV");
334         } else if (command.equals("BULAN")) {
335             playAudioResource("02bulan.WAV");
336         } else if (command.equals("GUNUNG")) {
337             playAudioResource("03gunung.WAV");
338         } else if (command.equals("AIR")) {
339             playAudioResource("04air.WAV");
340         } else if (command.equals("API")) {
341             playAudioResource("05api.WAV");
342         }
343         if (command.startsWith("Play")) {
344             setCursor(Cursor.getDefaultCursor());
345         }
346     }
347 }
348
349 private void playAudioResource(String audioResourceName) {
350     ClassLoader cl = BelajarAlam.class.getClassLoader();
351     URL resourceURL = cl.getResource(audioResourceName);
352     if (resourceURL != null) {
353         AudioClip sound = JApplet.newAudioClip(resourceURL);
354         sound.play();
355     }
356 }
357
358 public static void main()
359 {
360
361     BelajarAlam game=new BelajarAlam();
362     game.setTitle("Pelajaran 4 : Mengenal Alam");
363     game.setVisible(false);
364
365 }
366
367 }
368
369 }
```

```
1  /*
2  -----
3      Nama File      : BelajarAngka.java
4      Dipanggil Oleh : Angka.java
5      Keterangan    : Berisi pelajaran mengenai angka
6      Dibuat Oleh   : SARMINTO NIM 0911500157
7      CP            : HP 081368580251, E-Mail sarminto_scorpio@yahoo.co.id, Blog
      http://urangkite.blogspot.com
8  -----
9  */
10 import javax.swing.*;
11 import java.awt.*;
12 import java.awt.event.*;
13 import javax.swing.border.Border;
14 import java.applet.AudioClip;
15 import java.net.URL;
16
17
18 public class BelajarAngka extends JFrame
19 {
20
21
22     String mPath;
23
24     PathMusik mus=new PathMusik();
25     String Musicpath= mus.setThePath(mPath);
26
27
28     JPanel northPanel=new JPanel();
29     JPanel westPanel=new JPanel();
30     JPanel centerPanel=new JPanel();
31     JPanel eastPanel=new JPanel();
32     JPanel southPanel=new JPanel();
33     JPanel southWestPanel=new JPanel();
34     JPanel southCenterPanel=new JPanel();
35     JPanel westPicPanel=new JPanel();
36     JLabel lblUserName=new JLabel("",JLabel.CENTER);
37     JSeparator line=new JSeparator();
38     Timer t;
39
40     JLabel handlerAns=new JLabel("0");
41     int handler;
42     int holder;
43
44
45     String hPath;
46     int numInt;
47     int numPer;
48
49     PathGambar sPath=new PathGambar();
50     String path=sPath.setThePath(hPath);
51
52     JLabel lblPause=new JLabel(new ImageIcon(path+"latihan.gif"));
53     JLabel lblExit=new JLabel(new ImageIcon(path+"menu.jpg"));
54     JLabel lblPic=new JLabel(new ImageIcon( path + "12.jpg"));
55     JLabel lblGamePic=new JLabel(new ImageIcon(path + "papantulis.png"));
56     JLabel lblSPic=new JLabel(new ImageIcon (path + "kuda.gif"));
57     JLabel lblPic1=new JLabel();
58     JLabel lblPic2=new JLabel();
59     JLabel lblPic3=new JLabel();
60
61     JLabel lblHolderEPic=new JLabel(new ImageIcon(path + "kanan.jpg"));
62     JLabel lblPlay=new JLabel(new ImageIcon(path + "play.gif"));
63
64
65
66     public BelajarAngka()
67     {
68         JButton btn1;
69         JButton btn2;
70         JButton btn3;
71         JButton btn4;
72         JButton btn5;
73         JButton btn6;
74         JButton btn7;
75         JButton btn8;
```

```
76         JButton btn9;
77         JButton btn10;
78         ButtonHandler listener = new ButtonHandler();
79         btn1 = new JButton("1");
80         btn1.addActionListener(listener);
81         btn1.setBackground(Color.yellow);
82         add(btn1);
83         btn2 = new JButton("2");
84         btn2.addActionListener(listener);
85         btn2.setBackground(Color.cyan);
86         add(btn2);
87         btn3 = new JButton("3");
88         btn3.addActionListener(listener);
89         btn3.setBackground(Color.orange);
90         add(btn3);
91         btn4 = new JButton("4");
92         btn4.addActionListener(listener);
93         btn4.setBackground(Color.gray);
94         add(btn4);
95         btn5 = new JButton("5");
96         btn5.addActionListener(listener);
97         btn5.setBackground(Color.green);
98         add(btn5);
99         btn6 = new JButton("6");
100        btn6.addActionListener(listener);
101        btn6.setBackground(Color.lightGray);
102        add(btn6);
103        btn7 = new JButton("7");
104        btn7.addActionListener(listener);
105        btn7.setBackground(Color.magenta);
106        add(btn7);
107        btn8 = new JButton("8");
108        btn8.addActionListener(listener);
109        btn8.setBackground(Color.orange);
110        add(btn8);
111        btn9 = new JButton("9");
112        btn9.addActionListener(listener);
113        btn9.setBackground(Color.pink);
114        add(btn9);
115        btn10 = new JButton("10");
116        btn10.addActionListener(listener);
117        btn10.setBackground(Color.yellow);
118        add(btn10);
119
120        CursorMouse func=new CursorMouse();
121        func.MousePointer(this);
122
123        northPanel.setBackground(Color.WHITE);
124        westPanel.setBackground(Color.WHITE);
125        centerPanel.setBackground(Color.WHITE);
126        southPanel.setBackground(Color.WHITE);
127        eastPanel.setBackground(Color.WHITE);
128        southWestPanel.setBackground(Color.WHITE);
129        southCenterPanel.setBackground(Color.WHITE);
130        westPicPanel.setBackground(Color.WHITE);
131
132
133        lblUserName.setFont(new Font("OCR A Extended", Font.BOLD, 20));
134        lblUserName.setForeground(Color.RED);
135
136        northPanel.add(lblPic);
137
138
139        lblGamePic.add(lblPic1);
140        lblGamePic.add(lblPic2);
141        lblGamePic.add(lblPic3);
142
143        lblGamePic.add(btn1);
144        lblGamePic.add(btn2);
145        lblGamePic.add(btn3);
146        lblGamePic.add(btn4);
147        lblGamePic.add(btn5);
148        lblGamePic.add(btn6);
149        lblGamePic.add(btn7);
150        lblGamePic.add(btn8);
151        lblGamePic.add(btn9);
152        lblGamePic.add(btn10);
153        lblGamePic.add(lblUserName);
```

```
154         lblPic1.setBounds(480,85,80,80);//80=panjang x label,80=lebar y label, 440=layar
kiri kanan, 85 layar atas bawah
155         lblPic2.setBounds(30,65,150,200);//150=panjang x label,200=lebar y label, 30=lay
kiri kanan, 65 layar atas bawah
156         lblPic3.setBounds(200,100,250,200);
157
158
159         btn1.setBounds(38,20,50,50);
160         btn2.setBounds(88,20,50,50);
161         btn3.setBounds(138,20,50,50);
162         btn4.setBounds(188,20,50,50);
163         btn5.setBounds(238,20,50,50);
164         btn6.setBounds(288,20,50,50);
165         btn7.setBounds(338,20,50,50);
166         btn8.setBounds(388,20,50,50);
167         btn9.setBounds(438,20,50,50);
168         btn10.setBounds(488,20,50,50);
169
170         westPanel.add(westPicPanel);
171         westPanel.add(lblGamePic);
172
173         lblHolderEPic.add(lblPause);
174         lblHolderEPic.add(lblPlay);
175         lblHolderEPic.add(lblExit);
176
177         lblUserName.setBounds(40,360,500,180);
178         lblPause.setBounds(80,20,100,80);
179         lblPlay.setBounds(80,90,100,30);
180         lblPlay.setVisible(false);
181         lblExit.setBounds(80,90,100,80);
182
183         centerPanel.add(lblHolderEPic);
184
185         lblSPic.setBounds(100,0,155,110);
186         getContentPane().add(BorderLayout.NORTH,northPanel);
187         getContentPane().add(BorderLayout.WEST,westPanel);
188
189         setTitle("Pelajaran 1 : Mengenal Angka");
190         setLocation(100,25);
191         setSize(850,550);
192         setResizable(false);
193
194         getContentPane().add(BorderLayout.NORTH,northPanel);
195         getContentPane().add(BorderLayout.WEST,westPanel);
196         getContentPane().add(BorderLayout.CENTER,centerPanel);
197         getContentPane().add(BorderLayout.EAST,eastPanel);
198         getContentPane().add(BorderLayout.SOUTH,southPanel);
199
200
201         btn1.addActionListener (new ActionListener()
202
203         {
204             public void actionPerformed(ActionEvent e)
205             {
206                 lblPic2.setIcon( new ImageIcon(path + "01.gif") );
207                 lblPic3.setIcon( new ImageIcon(path + "satu.gif") );
208                 lblPic1.setIcon( new ImageIcon(path + "pinyin01.gif") );
209             }
210         });
211
212         btn2.addActionListener (new ActionListener()
213
214         {
215             public void actionPerformed(ActionEvent e)
216             {
217                 lblPic2.setIcon( new ImageIcon(path + "02.gif") );
218                 lblPic3.setIcon( new ImageIcon(path + "dua.gif") );
219                 lblPic1.setIcon( new ImageIcon(path + "pinyin02.gif") );
220             }
221         });
222
223         btn3.addActionListener (new ActionListener()
224
225         {
226             public void actionPerformed(ActionEvent e)
227             {
228                 lblPic2.setIcon( new ImageIcon(path + "03.gif") );
229                 lblPic3.setIcon( new ImageIcon(path + "tiga.gif") );
230                 lblPic1.setIcon( new ImageIcon(path + "pinyin03.gif") );
231             }
232         });
233     }
234 }
```

```
230     }
231     });
232         btn4.addActionListener (new ActionListener()
233     {
234         public void actionPerformed(ActionEvent e)
235         {
236             lblPic2.setIcon( new ImageIcon(path + "04.gif" ) );
237             lblPic3.setIcon( new ImageIcon(path + "empat.gif" ) );
238             lblPic1.setIcon( new ImageIcon(path + "pinyin04.gif" ) );
239         }
240     });
241
242         btn5.addActionListener (new ActionListener()
243     {
244         public void actionPerformed(ActionEvent e)
245         {
246             lblPic2.setIcon( new ImageIcon(path + "05.gif" ) );
247             lblPic3.setIcon( new ImageIcon(path + "lima.gif" ) );
248             lblPic1.setIcon( new ImageIcon(path + "pinyin05.gif" ) );
249         }
250     });
251
252         btn6.addActionListener (new ActionListener()
253     {
254         public void actionPerformed(ActionEvent e)
255         {
256             lblPic2.setIcon( new ImageIcon(path + "06.gif" ) );
257             lblPic3.setIcon( new ImageIcon(path + "enam.gif" ) );
258             lblPic1.setIcon( new ImageIcon(path + "pinyin06.gif" ) );
259         }
260     });
261
262     });
263
264         btn7.addActionListener (new ActionListener()
265     {
266         public void actionPerformed(ActionEvent e)
267         {
268             lblPic2.setIcon( new ImageIcon(path + "07.gif" ) );
269             lblPic3.setIcon( new ImageIcon(path + "tujuh.gif" ) );
270             lblPic1.setIcon( new ImageIcon(path + "pinyin07.gif" ) );
271         }
272     });
273
274         btn8.addActionListener (new ActionListener()
275     {
276         public void actionPerformed(ActionEvent e)
277         {
278             lblPic2.setIcon( new ImageIcon(path + "08.gif" ) );
279             lblPic3.setIcon( new ImageIcon(path + "delapan.gif" ) );
280             lblPic1.setIcon( new ImageIcon(path + "pinyin08.gif" ) );
281         }
282     });
283
284         btn9.addActionListener (new ActionListener()
285     {
286         public void actionPerformed(ActionEvent e)
287         {
288             lblPic2.setIcon( new ImageIcon(path + "09.gif" ) );
289             lblPic3.setIcon( new ImageIcon(path + "sembilan.gif" ) );
290             lblPic1.setIcon( new ImageIcon(path + "pinyin09.gif" ) );
291         }
292     });
293
294         btn10.addActionListener (new ActionListener()
295     {
296         public void actionPerformed(ActionEvent e)
297         {
298             lblPic2.setIcon( new ImageIcon(path + "10.gif" ) );
299             lblPic3.setIcon( new ImageIcon(path + "sepuluh.gif" ) );
300             lblPic1.setIcon( new ImageIcon(path + "pinyin10.gif" ) );
301         }
302     });
303
304         lblPause.addMouseListener(new MouseAdapter()
305     {
306         public void mouseClicked(MouseEvent e)
```

```
308         {
309             dispose();
310             LatihanAngka menu=new LatihanAngka();
311             menu.setVisible(true);
312         }
313     });
314 });
315
316 lblExit.addMouseListener(new MouseAdapter()
317 {
318     public void mouseClicked(MouseEvent e)
319     {
320         dispose();
321         MenuUtama menu=new MenuUtama();
322         menu.setVisible(true);
323     }
324 });
325 });
326
327
328 lblPause.addMouseListener(new MouseAdapter()
329 {
330     public void mouseEntered(MouseEvent arg0)
331     {
332         lblPause.setIcon( new ImageIcon(path + "latihan1.gif" ) );
333     }
334 });
335 });
336
337 lblPause.addMouseListener(new MouseAdapter()
338 {
339     public void mouseExited(MouseEvent arg0)
340     {
341         lblPause.setIcon( new ImageIcon(path + "latihan.gif" ) );
342     }
343 });
344
345 lblExit.addMouseListener(new MouseAdapter()
346 {
347     public void mouseEntered(MouseEvent arg0)
348     {
349         lblExit.setIcon( new ImageIcon(path + "menu1.jpg" ) );
350     }
351 });
352 });
353
354 lblExit.addMouseListener(new MouseAdapter()
355 {
356     public void mouseExited(MouseEvent arg0)
357     {
358         lblExit.setIcon( new ImageIcon(path + "menu.jpg" ) );
359     }
360 });
361
362 lblPlay.addMouseListener(new MouseAdapter()
363 {
364     public void mouseEntered(MouseEvent arg0)
365     {
366         lblPlay.setIcon( new ImageIcon(path + "play2.gif" ) );
367     }
368 });
369 });
370
371 lblPlay.addMouseListener(new MouseAdapter()
372 {
373     public void mouseExited(MouseEvent arg0)
374     {
375         lblPlay.setIcon( new ImageIcon(path + "play.gif" ) );
376     }
377 });
378
379 lblPlay.addMouseListener(new MouseAdapter()
380 {
381     public void mouseClicked(MouseEvent e)
382     {
383         //t.start();
384         lblGamePic.setVisible(true);
385         lblPause.setVisible(true);
```

```
386         lblPlay.setVisible(false);
387     }
388
389 });
390
391 addWindowListener(new WindowAdapter()
392 {
393     public void windowClosing(WindowEvent we)
394     {
395         System.exit(0);
396     }
397 });
398
399 }
400
401
402 private class ButtonHandler implements ActionListener {
403
404     public void actionPerformed(ActionEvent evt) {
405         String command = evt.getActionCommand();
406         if (command.equals("1")) {
407             playAudioResource("01satu.WAV");
408         } else if (command.equals("2")) {
409             playAudioResource("02dua.WAV");
410         } else if (command.equals("3")) {
411             playAudioResource("03tiga.WAV");
412         } else if (command.equals("4")) {
413             playAudioResource("04empat.WAV");
414         } else if (command.equals("5")) {
415             playAudioResource("05lima.WAV");
416         } else if (command.equals("6")) {
417             playAudioResource("06enam.WAV");
418         } else if (command.equals("7")) {
419             playAudioResource("07tujuh.WAV");
420         } else if (command.equals("8")) {
421             playAudioResource("08delapan.WAV");
422         } else if (command.equals("9")) {
423             playAudioResource("09sembilan.WAV");
424         } else if (command.equals("10")) {
425             playAudioResource("10sepuluh.WAV");
426         }
427         if (command.startsWith("Play")) {
428             setCursor(Cursor.getDefaultCursor());
429         }
430     }
431 }
432
433 private void playAudioResource(String audioResourceName) {
434     ClassLoader cl = BelajarAngka.class.getClassLoader();
435     URL resourceURL = cl.getResource(audioResourceName);
436     if (resourceURL != null) {
437         AudioClip sound = JApplet.newAudioClip(resourceURL);
438         sound.play();
439     }
440 }
441
442 public static void main()
443 {
444     BelajarAngka game=new BelajarAngka();
445     game.setTitle("Pelajaran 1 : Mengenal Angka");
446     game.setVisible(false);
447 }
448 }
449
```

```
1  /*
2  -----
3      Nama File      : BelajarHewan.java
4      Dipanggil Oleh : Hewan.java
5      Keterangan    : Berisi pelajaran mengenai hewan
6      Dibuat Oleh   : SARMINTO NIM 0911500157
7      CP            : HP 081368580251, E-Mail sarminto_scorpio@yahoo.co.id, Blog
      http://urangkite.blogspot.com
8  -----
9  */
10 import javax.swing.*;
11 import java.awt.*;
12 import java.awt.event.*;
13 import javax.swing.border.Border;
14 import java.applet.AudioClip;
15 import java.net.URL;
16
17 public class BelajarHewan extends JFrame
18 {
19
20
21     String mPath;
22
23     PathMusik mus=new PathMusik();
24     String Musicpath= mus.setThePath(mPath);
25
26
27     JPanel northPanel=new JPanel();
28     JPanel westPanel=new JPanel();
29     JPanel centerPanel=new JPanel();
30     JPanel eastPanel=new JPanel();
31     JPanel southPanel=new JPanel();
32     JPanel southWestPanel=new JPanel();
33     JPanel southCenterPanel=new JPanel();
34     JPanel westPicPanel=new JPanel();
35     JLabel lblUserName=new JLabel("",JLabel.CENTER);
36     JSeparator line=new JSeparator();
37     Timer t;
38
39     JLabel handlerAns=new JLabel("0");
40     int handler;
41     int holder;
42
43
44     String hPath;
45     int numInt;
46     int numPer;
47
48     PathGambar sPath=new PathGambar();
49     String path=sPath.setThePath(hPath);
50
51     JLabel lblPause=new JLabel(new ImageIcon(path+"latihan.gif"));
52     JLabel lblExit=new JLabel(new ImageIcon(path+"menu.jpg"));
53     JLabel lblPic=new JLabel(new ImageIcon( path + "12.jpg"));
54     JLabel lblGamePic=new JLabel(new ImageIcon(path + "papantulis.png"));
55     JLabel lblSPic=new JLabel(new ImageIcon( path + "kuda.gif"));
56     JLabel lblPic1=new JLabel();
57     JLabel lblPic2=new JLabel();
58     JLabel lblPic3=new JLabel();
59     JLabel lblHolderEPic=new JLabel(new ImageIcon(path + "kanan.jpg"));
60     JLabel lblPlay=new JLabel(new ImageIcon(path + "play.gif"));
61
62
63
64     public BelajarHewan()
65     {
66         JButton btn1;
67         JButton btn2;
68         JButton btn3;
69         JButton btn4;
70         JButton btn5;
71         JButton btn6;
72         ButtonHandler listener = new ButtonHandler();
73         btn1 = new JButton("SAPI");
74         btn1.addActionListener(listener);
75         btn1.setBackground(Color.red);
```



```
76         add(btn1);
77         btn2 = new JButton("KAMBING");
78         btn2.addActionListener(listener);
79             btn2.setBackground(Color.green);
80         add(btn2);
81         btn3 = new JButton("KUDA");
82         btn3.addActionListener(listener);
83             btn3.setBackground(Color.yellow);
84         add(btn3);
85         btn4 = new JButton("KELINCI");
86         btn4.addActionListener(listener);
87             btn4.setBackground(Color.orange);
88         add(btn4);
89         btn5 = new JButton("IKAN");
90         btn5.addActionListener(listener);
91             btn5.setBackground(Color.magenta);
92         add(btn5);
93         btn6 = new JButton("BURUNG");
94         btn6.addActionListener(listener);
95             btn6.setBackground(Color.lightGray);
96         add(btn6);
97
98         CursorMouse func=new CursorMouse();
99         func.MousePointer(this);
100
101         northPanel.setBackground(Color.WHITE);
102         westPanel.setBackground(Color.WHITE);
103         centerPanel.setBackground(Color.WHITE);
104         southPanel.setBackground(Color.WHITE);
105         eastPanel.setBackground(Color.WHITE);
106         southWestPanel.setBackground(Color.WHITE);
107         southCenterPanel.setBackground(Color.WHITE);
108         westPicPanel.setBackground(Color.WHITE);
109
110
111         lblUserName.setFont(new Font("OCR A Extended", Font.BOLD, 20));
112         lblUserName.setForeground(Color.RED);
113
114         northPanel.add(lblPic);
115
116
117         lblGamePic.add(lblPic1);
118         lblGamePic.add(lblPic2);
119         lblGamePic.add(lblPic3);
120
121         lblGamePic.add(btn1);
122         lblGamePic.add(btn2);
123         lblGamePic.add(btn3);
124         lblGamePic.add(btn4);
125         lblGamePic.add(btn5);
126         lblGamePic.add(btn6);
127         lblGamePic.add(lblUserName);
128         lblPic1.setBounds(460,85,95,80);//80=panjang x label,80=lebar y label, 440=layar
kiri kanan, 85 layar atas bawah
129         lblPic2.setBounds(20,65,150,200);//150=panjang x label,200=lebar y label, 30=lay
kiri kanan, 65 layar atas bawah
130         lblPic3.setBounds(200,100,250,200);
131
132         btn1.setBounds(10,20,90,50);
133         btn2.setBounds(103,20,90,50);
134         btn3.setBounds(197,20,90,50);
135         btn4.setBounds(289,20,90,50);
136         btn5.setBounds(381,20,90,50);
137         btn6.setBounds(473,20,90,50);
138
139         westPanel.add(westPicPanel);
140         westPanel.add(lblGamePic);
141
142         lblHolderEPic.add(lblPause);
143         lblHolderEPic.add(lblPlay);
144         lblHolderEPic.add(lblExit);
145
146         lblUserName.setBounds(40,360,500,180);
147
148         lblPause.setBounds(80,20,100,80);
149         lblPlay.setBounds(80,90,100,30);
150         lblPlay.setVisible(false);
151         lblExit.setBounds(80,90,100,80);
```

```
152
153     centerPanel.add(lblHolderEPic);
154
155     lblSPic.setBounds(100,0,155,110);
156
157     getContentPane().add(BorderLayout.NORTH,northPanel);
158     getContentPane().add(BorderLayout.WEST,westPanel);
159
160     setTitle("Pelajaran 2 : Menenal Hewan");
161     setLocation(100,25);
162     setSize(850,550);
163     setResizable(false);
164
165     getContentPane().add(BorderLayout.NORTH,northPanel);
166     getContentPane().add(BorderLayout.WEST,westPanel);
167     getContentPane().add(BorderLayout.CENTER,centerPanel);
168     getContentPane().add(BorderLayout.EAST,eastPanel);
169     getContentPane().add(BorderLayout.SOUTH,southPanel);
170
171
172         btn1.addActionListener (new ActionListener()
173
174     {
175         public void actionPerformed(ActionEvent e)
176         {
177             lblPic2.setIcon( new ImageIcon(path + "sapi.gif" ) );
178             lblPic3.setIcon( new ImageIcon(path + "01sapi.gif" ) );
179             lblPic1.setIcon( new ImageIcon(path + "pinyinsapi.gif" ) );
180
181         }
182     });
183
184         btn2.addActionListener (new ActionListener()
185
186     {
187         public void actionPerformed(ActionEvent e)
188         {
189             lblPic2.setIcon( new ImageIcon(path + "kambing.jpg" ) );
190             lblPic3.setIcon( new ImageIcon(path + "02kambing.gif" ) );
191             lblPic1.setIcon( new ImageIcon(path + "pinyinkambing.gif" ) );
192
193         }
194     });
195
196         btn3.addActionListener (new ActionListener()
197
198     {
199         public void actionPerformed(ActionEvent e)
200         {
201             lblPic2.setIcon( new ImageIcon(path + "kuda.gif" ) );
202             lblPic3.setIcon( new ImageIcon(path + "03kuda.gif" ) );
203             lblPic1.setIcon( new ImageIcon(path + "pinyinkuda.gif" ) );
204
205         }
206     });
207
208         btn4.addActionListener (new ActionListener()
209
210     {
211         public void actionPerformed(ActionEvent e)
212         {
213             lblPic2.setIcon( new ImageIcon(path + "kelinci.jpg" ) );
214             lblPic3.setIcon( new ImageIcon(path + "06kelinci.gif" ) );
215             lblPic1.setIcon( new ImageIcon(path + "pinyinkelinci.gif" ) );
216
217         }
218     });
219
220         btn5.addActionListener (new ActionListener()
221
222     {
223         public void actionPerformed(ActionEvent e)
224         {
225             lblPic2.setIcon( new ImageIcon(path + "ikan.jpg" ) );
226             lblPic3.setIcon( new ImageIcon(path + "05ikan.gif" ) );
227             lblPic1.setIcon( new ImageIcon(path + "pinyinikan.gif" ) );
228
229         }
230     });
231
232         btn6.addActionListener (new ActionListener()
233
234     {
235         public void actionPerformed(ActionEvent e)
236         {
237             lblPic2.setIcon( new ImageIcon(path + "burung.gif" ) );
238             lblPic3.setIcon( new ImageIcon(path + "04burung.gif" ) );
```

```
230         lblPic1.setIcon( new ImageIcon(path + "pinyinburung.gif") );
231     }
232 });
233
234
235
236         lblPause.addMouseListener(new MouseAdapter()
237     {
238         public void mouseClicked(MouseEvent e)
239         {
240             dispose();
241             LatihanHewan menu=new LatihanHewan();
242             menu.setVisible(true);
243         }
244     });
245
246
247     lblExit.addMouseListener(new MouseAdapter()
248     {
249         public void mouseClicked(MouseEvent e)
250         {
251             dispose();
252             MenuUtama menu=new MenuUtama();
253             menu.setVisible(true);
254         }
255     });
256
257
258     lblPause.addMouseListener(new MouseAdapter()
259     {
260         public void mouseEntered(MouseEvent arg0)
261         {
262             lblPause.setIcon( new ImageIcon(path + "latihan1.gif") );
263         }
264     });
265
266
267     lblPause.addMouseListener(new MouseAdapter()
268     {
269         public void mouseExited(MouseEvent arg0)
270         {
271             lblPause.setIcon( new ImageIcon(path + "latihan.gif") );
272         }
273     });
274
275     lblExit.addMouseListener(new MouseAdapter()
276     {
277         public void mouseEntered(MouseEvent arg0)
278         {
279             lblExit.setIcon( new ImageIcon(path + "menu1.jpg") );
280         }
281     });
282
283
284     lblExit.addMouseListener(new MouseAdapter()
285     {
286         public void mouseExited(MouseEvent arg0)
287         {
288             lblExit.setIcon( new ImageIcon(path + "menu.jpg") );
289         }
290     });
291
292     lblPlay.addMouseListener(new MouseAdapter()
293     {
294         public void mouseEntered(MouseEvent arg0)
295         {
296             lblPlay.setIcon( new ImageIcon(path + "play2.gif") );
297         }
298     });
299
300
301     lblPlay.addMouseListener(new MouseAdapter()
302     {
303         public void mouseExited(MouseEvent arg0)
304         {
305             lblPlay.setIcon( new ImageIcon(path + "play.gif") );
306         }
307     });
```

```
308
309     lblPlay.addMouseListener(new MouseAdapter()
310     {
311         public void mouseClicked(MouseEvent e)
312         {
313             //t.start();
314             lblGamePic.setVisible(true);
315             lblPause.setVisible(true);
316             lblPlay.setVisible(false);
317         }
318     });
319
320
321     addWindowListener(new WindowAdapter()
322     {
323         public void windowClosing(WindowEvent we)
324         {
325             System.exit(0);
326         }
327     });
328
329
330
331 }
332
333
334
335
336     private class ButtonHandler implements ActionListener {
337
338         public void actionPerformed(ActionEvent evt) {
339             String command = evt.getActionCommand();
340             if (command.equals("SAPI")) {
341                 playAudioResource("01sapi.WAV");
342             } else if (command.equals("KAMBING")) {
343                 playAudioResource("02kambing.WAV");
344             } else if (command.equals("KUDA")) {
345                 playAudioResource("03kuda.WAV");
346             } else if (command.equals("KELINCI")) {
347                 playAudioResource("06kelinci.WAV");
348             } else if (command.equals("IKAN")) {
349                 playAudioResource("05ikan.WAV");
350             } else if (command.equals("BURUNG")) {
351                 playAudioResource("04burung.WAV");
352             }
353             if (command.startsWith("Play")) {
354                 setCursor(Cursor.getDefaultCursor());
355             }
356         }
357     }
358
359     private void playAudioResource(String audioResourceName) {
360         ClassLoader cl = BelajarHewan.class.getClassLoader();
361         URL resourceURL = cl.getResource(audioResourceName);
362         if (resourceURL != null) {
363             AudioClip sound = JApplet.newAudioClip(resourceURL);
364             sound.play();
365         }
366     }
367
368     public static void main()
369     {
370
371         BelajarHewan game=new BelajarHewan();
372         game.setTitle("Pelajaran 2 : Mengenal Hewan");
373         game.setVisible(false);
374
375     }
376
377
378 }
379
```

```
1  /*
2  -----
3      Nama File      : BelajarTubuh.java
4      Dipanggil Oleh : Tubuh.java
5      Keterangan    : Berisi pelajaran mengenai tubuh manusia
6      Dibuat Oleh   : SARMINTO NIM 0911500157
7      CP            : HP 081368580251, E-Mail sarminto_scorpio@yahoo.co.id, Blog
8      http://urangkite.blogspot.com
9  -----
10 */
11 import javax.swing.*;
12 import java.awt.*;
13 import java.awt.event.*;
14 import javax.swing.border.Border;
15 import java.applet.AudioClip;
16 import java.net.URL;
17
18 public class BelajarTubuh extends JFrame
19 {
20
21     String mPath;
22
23     PathMusik mus=new PathMusik();
24     String Musicpath= mus.setThePath(mPath);
25
26     JPanel northPanel=new JPanel();
27     JPanel westPanel=new JPanel();
28     JPanel centerPanel=new JPanel();
29     JPanel eastPanel=new JPanel();
30     JPanel southPanel=new JPanel();
31     JPanel southWestPanel=new JPanel();
32     JPanel southCenterPanel=new JPanel();
33     JPanel westPicPanel=new JPanel();
34     JLabel lblUserName=new JLabel(" ",JLabel.CENTER);
35     JSeparator line=new JSeparator();
36     Timer t;
37
38     JLabel handlerAns=new JLabel("0");
39     int handler;
40     int holder;
41
42
43     String hPath;
44     int numInt;
45     int numPer;
46
47     PathGambar sPath=new PathGambar();
48     String path=sPath.setThePath(hPath);
49
50     JLabel lblPause=new JLabel(new ImageIcon(path+"latihan.gif"));
51     JLabel lblExit=new JLabel(new ImageIcon(path+"menu.jpg"));
52     JLabel lblPic=new JLabel(new ImageIcon( path + "12.jpg"));
53     JLabel lblGamePic=new JLabel(new ImageIcon(path + "papantulis.png"));
54     JLabel lblSPic=new JLabel(new ImageIcon (path + "orang.gif"));
55     JLabel lblPic1=new JLabel();
56     JLabel lblPic2=new JLabel();
57     JLabel lblPic3=new JLabel();
58     JLabel lblHolderEPic=new JLabel(new ImageIcon(path + "kanan.jpg"));
59     JLabel lblPlay=new JLabel(new ImageIcon(path + "play.gif"));
60
61
62
63     public BelajarTubuh()
64     {
65         JButton btn1;
66         JButton btn2;
67         JButton btn3;
68         JButton btn4;
69         JButton btn5;
70         JButton btn6;
71         ButtonHandler listener = new ButtonHandler();
72         btn1 = new JButton("KEPALA");
73         btn1.addActionListener(listener);
74         btn1.setBackground(Color.green);
75         add(btn1);
```

```
76         btn2 = new JButton("ORANG");
77         btn2.addActionListener(listener);
78             btn2.setBackground(Color.red);
79         add(btn2);
80         btn3 = new JButton("MULUT");
81         btn3.addActionListener(listener);
82             btn3.setBackground(Color.orange);
83         add(btn3);
84         btn4 = new JButton("TANGAN");
85         btn4.addActionListener(listener);
86             btn4.setBackground(Color.yellow);
87         add(btn4);
88         btn5 = new JButton("TELINGA");
89         btn5.addActionListener(listener);
90             btn5.setBackground(Color.lightGray);
91         add(btn5);
92         btn6 = new JButton("GIGI");
93         btn6.addActionListener(listener);
94             btn6.setBackground(Color.magenta);
95         add(btn6);
96
97         CursorMouse func=new CursorMouse();
98         func.MousePointer(this);
99
100        northPanel.setBackground(Color.WHITE);
101        westPanel.setBackground(Color.WHITE);
102        centerPanel.setBackground(Color.WHITE);
103        southPanel.setBackground(Color.WHITE);
104        eastPanel.setBackground(Color.WHITE);
105        southWestPanel.setBackground(Color.WHITE);
106        southCenterPanel.setBackground(Color.WHITE);
107        westPicPanel.setBackground(Color.WHITE);
108
109        lblUserName.setFont(new Font("OCR A Extended", Font.BOLD, 20));
110        lblUserName.setForeground(Color.RED);
111        northPanel.add(lblPic);
112
113        lblGamePic.add(lblPic1);
114        lblGamePic.add(lblPic2);
115        lblGamePic.add(lblPic3);
116
117        lblGamePic.add(btn1);
118        lblGamePic.add(btn2);
119        lblGamePic.add(btn3);
120        lblGamePic.add(btn4);
121        lblGamePic.add(btn5);
122        lblGamePic.add(btn6);
123        lblGamePic.add(lblUserName);
124        lblPic1.setBounds(460,85,95,80);//80=panjang x label,80=lebar y label, 440=layar
kiri kanan, 85 layar atas bawah
125        lblPic2.setBounds(20,65,150,200);//150=panjang x label,200=lebar y label, 30=lay
kiri kanan, 65 layar atas bawah
126        lblPic3.setBounds(200,100,250,200);
127
128
129        btn1.setBounds(10,20,90,50);
130        btn2.setBounds(103,20,90,50);
131        btn3.setBounds(197,20,90,50);
132        btn4.setBounds(289,20,90,50);
133        btn5.setBounds(381,20,90,50);
134        btn6.setBounds(473,20,90,50);
135
136        westPanel.add(westPicPanel);
137        westPanel.add(lblGamePic);
138
139        lblHolderEPic.add(lblPause);
140        lblHolderEPic.add(lblPlay);
141        lblHolderEPic.add(lblExit);
142
143        lblUserName.setBounds(40,360,500,180);
144
145        lblPause.setBounds(80,20,100,80);
146        lblPlay.setBounds(80,90,100,30);
147        lblPlay.setVisible(false);
148        lblExit.setBounds(80,90,100,80);
149
150        centerPanel.add(lblHolderEPic);
151
```

```
152         lblSPic.setBounds(100,0,155,110);
153         getContentPane().add(BorderLayout.NORTH,northPanel);
154         getContentPane().add(BorderLayout.WEST,westPanel);
155
156         setTitle("Pelajaran 3 : Mengenal Tubuh");
157         setLocation(100,25);
158         setSize(850,550);
159         setResizable(false);
160
161         getContentPane().add(BorderLayout.NORTH,northPanel);
162         getContentPane().add(BorderLayout.WEST,westPanel);
163         getContentPane().add(BorderLayout.CENTER,centerPanel);
164         getContentPane().add(BorderLayout.EAST,eastPanel);
165         getContentPane().add(BorderLayout.SOUTH,southPanel);
166
167
168         btn1.addActionListener (new ActionListener()
169
170         {
171             public void actionPerformed(ActionEvent e)
172             {
173                 lblPic2.setIcon( new ImageIcon(path + "kepala.gif" ) );
174                 lblPic3.setIcon( new ImageIcon(path + "06kepala.gif" ) );
175                 lblPic1.setIcon( new ImageIcon(path + "pinyinkepala.gif" ) );
176             }
177         });
178
179         btn2.addActionListener (new ActionListener()
180
181         {
182             public void actionPerformed(ActionEvent e)
183             {
184                 lblPic2.setIcon( new ImageIcon(path + "orang.gif" ) );
185                 lblPic3.setIcon( new ImageIcon(path + "01orang.gif" ) );
186                 lblPic1.setIcon( new ImageIcon(path + "pinyinorang.gif" ) );
187             }
188         });
189
190         btn3.addActionListener (new ActionListener()
191
192         {
193             public void actionPerformed(ActionEvent e)
194             {
195                 lblPic2.setIcon( new ImageIcon(path + "mulut.gif" ) );
196                 lblPic3.setIcon( new ImageIcon(path + "02mulut.gif" ) );
197                 lblPic1.setIcon( new ImageIcon(path + "pinyinmulut.gif" ) );
198             }
199         });
200
201         btn4.addActionListener (new ActionListener()
202
203         {
204             public void actionPerformed(ActionEvent e)
205             {
206                 lblPic2.setIcon( new ImageIcon(path + "tangan.gif" ) );
207                 lblPic3.setIcon( new ImageIcon(path + "03tangan.gif" ) );
208                 lblPic1.setIcon( new ImageIcon(path + "pinyintangan.gif" ) );
209             }
210         });
211
212         btn5.addActionListener (new ActionListener()
213
214         {
215             public void actionPerformed(ActionEvent e)
216             {
217                 lblPic2.setIcon( new ImageIcon(path + "telinga.gif" ) );
218                 lblPic3.setIcon( new ImageIcon(path + "04telinga.gif" ) );
219                 lblPic1.setIcon( new ImageIcon(path + "pinyintelinga.gif" ) );
220             }
221         });
222
223         btn6.addActionListener (new ActionListener()
224
225         {
226             public void actionPerformed(ActionEvent e)
227             {
228                 lblPic2.setIcon( new ImageIcon(path + "gigi.gif" ) );
229                 lblPic3.setIcon( new ImageIcon(path + "05gigi.gif" ) );
230                 lblPic1.setIcon( new ImageIcon(path + "pinyingigi.gif" ) );
231             }
232         });
233     });
```

```
230
231
232         lblPause.addMouseListener(new MouseAdapter()
233     {
234         public void mouseClicked(MouseEvent e)
235         {
236             dispose();
237             LatihanTubuh menu=new LatihanTubuh();
238             menu.setVisible(true);
239         }
240     });
241
242 lblExit.addMouseListener(new MouseAdapter()
243 {
244     public void mouseClicked(MouseEvent e)
245     {
246         dispose();
247         MenuUtama menu=new MenuUtama();
248         menu.setVisible(true);
249     }
250 });
251
252
253
254 lblPause.addMouseListener(new MouseAdapter()
255 {
256     public void mouseEntered(MouseEvent arg0)
257     {
258         lblPause.setIcon( new ImageIcon(path + "latihan1.gif" ) );
259     }
260 });
261
262
263
264 lblPause.addMouseListener(new MouseAdapter()
265 {
266     public void mouseExited(MouseEvent arg0)
267     {
268         lblPause.setIcon( new ImageIcon(path + "latihan.gif" ) );
269     }
270 });
271
272
273
274 lblExit.addMouseListener(new MouseAdapter()
275 {
276     public void mouseEntered(MouseEvent arg0)
277     {
278         lblExit.setIcon( new ImageIcon(path + "menu1.jpg" ) );
279     }
280 });
281
282
283
284 lblExit.addMouseListener(new MouseAdapter()
285 {
286     public void mouseExited(MouseEvent arg0)
287     {
288         lblExit.setIcon( new ImageIcon(path + "menu.jpg" ) );
289     }
290 });
291
292
293
294 lblPlay.addMouseListener(new MouseAdapter()
295 {
296     public void mouseEntered(MouseEvent arg0)
297     {
298         lblPlay.setIcon( new ImageIcon(path + "play2.gif" ) );
299     }
300 });
301
302
303
304 lblPlay.addMouseListener(new MouseAdapter()
305 {
306     public void mouseExited(MouseEvent arg0)
307     {
308         lblPlay.setIcon( new ImageIcon(path + "play.gif" ) );
309     }
310 });
311
312
313
314 lblPlay.addMouseListener(new MouseAdapter()
315 {
```



```
308         public void mouseClicked(MouseEvent e)
309         {
310             //t.start();
311             lblGamePic.setVisible(true);
312             lblPause.setVisible(true);
313             lblPlay.setVisible(false);
314         }
315     };
316 });
317
318 addWindowListener(new WindowAdapter()
319 {
320     public void windowClosing(WindowEvent we)
321     {
322         System.exit(0);
323     }
324 });
325
326
327
328 }
329
330 private class ButtonHandler implements ActionListener {
331
332     public void actionPerformed(ActionEvent evt) {
333         String command = evt.getActionCommand();
334         if (command.equals("KEPALA")) {
335             playAudioResource("06kepala.WAV");
336         } else if (command.equals("ORANG")) {
337             playAudioResource("01orang.WAV");
338         } else if (command.equals("MULUT")) {
339             playAudioResource("02mulut.WAV");
340         } else if (command.equals("TANGAN")) {
341             playAudioResource("03tangan.WAV");
342         } else if (command.equals("TELINGA")) {
343             playAudioResource("04telinga.WAV");
344         } else if (command.equals("GIGI")) {
345             playAudioResource("05gigi.WAV");
346         }
347         if (command.startsWith("Play")) {
348             setCursor(Cursor.getDefaultCursor());
349         }
350     }
351 }
352
353 private void playAudioResource(String audioResourceName) {
354     ClassLoader cl = BelajarTubuh.class.getClassLoader();
355     URL resourceURL = cl.getResource(audioResourceName);
356     if (resourceURL != null) {
357         AudioClip sound = JApplet.newAudioClip(resourceURL);
358         sound.play();
359     }
360 }
361
362 public static void main()
363 {
364
365     BelajarTubuh game=new BelajarTubuh();
366     game.setTitle("Pelajaran 3 : Mengenal Tubuh");
367     game.setVisible(false);
368
369 }
370
371 }
372
373 }
```

```
1  /*
2  -----
3      Nama File      : CursorMouse.java
4      Dipanggil Oleh : -
5      Keterangan    : Berfungsi untuk membuat kursor mouse
6      Dibuat Oleh   : SARMINTO NIM 0911500157
7      CP            : HP 081368580251, E-Mail sarminto_scorpio@yahoo.co.id, Blog
      http://urangkite.blogspot.com
8  -----
9  */
10 import java.awt.Image;
11 import java.awt.Point;
12 import javax.swing.*;
13
14
15 public class CursorMouse
16 {
17     String hPath;
18     PathGambar sPath=new PathGambar();
19     String path=sPath.setThePath(hPath);
20     final Image cursorImage = new ImageIcon(path + "mouse.gif").getImage();
21     final Point hotspot = new Point(10, 10);
22     final String name = "Sarminto Cursor Mouse";
23
24     public CursorMouse()
25     {
26     }
27
28     public void MousePointer(JFrame frame)
29     {
30         frame.setCursor(frame.getToolkit().createCustomCursor(cursorImage, hotspot, name))
31     }
32
33     public void MousePointerDialog(JDialog frame)
34     {
35         frame.setCursor(frame.getToolkit().createCustomCursor(cursorImage, hotspot, name))
36     }
37 }
38
```

```
1  /*
2  -----
3      Nama File      : Tubuh.java
4      Dipanggil Oleh : MenuUtama.java
5      Keterangan    : Pengenalan tubuh yang akan dipelajari
6      Dibuat Oleh   : SARMINTO NIM 0911500157
7      CP            : HP 081368580251, E-Mail sarminto_scorpio@yahoo.co.id, Blog
8      http://urangkite.blogspot.com
9      -----
10     */
11     import javax.swing.*;
12     import java.awt.*;
13     import java.awt.event.*;
14
15     public class Tubuh extends JFrame
16     {
17         JPanel northPanel=new JPanel();
18         JPanel westPanel=new JPanel();
19         JPanel eastPanel=new JPanel();
20         JPanel centerPanel=new JPanel();
21         JPanel southPanel=new JPanel();
22
23         String hPath;
24
25         PathGambar sPath=new PathGambar();
26         String path=sPath.setThePath(hPath);
27         JLabel lblPicCase=new JLabel(new ImageIcon(path+"body.jpg"));
28         JLabel cmdGame =new JLabel(new ImageIcon(path + "selanjutnya.jpg"));
29         JLabel lblUserName=new JLabel();
30
31
32         public Tubuh()
33         {
34             CursorMouse func=new CursorMouse();
35             func.MousePointer(this);
36
37             southPanel.setBackground(Color.WHITE);
38             centerPanel.setBackground(Color.WHITE);
39             eastPanel.setBackground(Color.WHITE);
40             westPanel.setBackground(Color.WHITE);
41             northPanel.setBackground(Color.WHITE);
42
43             centerPanel.add(lblPicCase);
44             southPanel.add(cmdGame);
45             westPanel.add(lblUserName);
46
47
48             setSize(850,550);
49             setVisible(true);
50             setResizable(false);
51             setLocation(100,25);
52             getContentPane().add(BorderLayout.CENTER,centerPanel);
53             getContentPane().add(BorderLayout.SOUTH,southPanel);
54             getContentPane().add(BorderLayout.NORTH,northPanel);
55
56             cmdGame.addMouseListener(new MouseAdapter()
57             {
58                 public void mouseEntered(MouseEvent arg0)
59                 {
60                     cmdGame.setIcon( new ImageIcon(path + "selanjutnyal.jpg") );
61                 }
62             });
63
64             cmdGame.addMouseListener(new MouseAdapter()
65             {
66                 public void mouseExited(MouseEvent arg0)
67                 {
68                     cmdGame.setIcon( new ImageIcon(path + "selanjutnya.jpg") );
69                 }
70             });
71
72             cmdGame.addMouseListener(new MouseAdapter()
73             {
74                 public void mouseClicked(MouseEvent e)
75
```

```
76         {
77             BelajarTubuh game=new BelajarTubuh();
78             game.lblUserName.setText(lblUserName.getText());
79             dispose();
80             game.setVisible(true);
81         }
82     }
83 });
84
85 addWindowListener(new WindowAdapter()
86 {
87     public void windowClosing(WindowEvent we)
88     {
89         System.exit(0);
90     }
91 });
92
93 }
94
95 public static void main(String[] args)
96 {
97     Tubuh game=new Tubuh();
98     game.setTitle("Pelajaran Mengenal Tubuh");
99     game.setVisible(true);
100 }
101
102 }
103
```

```
1  /*
2  -----
3      Nama File      : LatihanAlam.java
4      Dipanggil Oleh : BelajarAlam.java
5      Keterangan    : Latihan Alam
6      Dibuat Oleh   : SARMINTO NIM 0911500157
7      CP            : HP 081368580251, E-Mail sarminto_scorpio@yahoo.co.id, Blog
      http://urangkite.blogspot.com
8  -----
9  */
10 import javax.swing.*;
11 import java.awt.*;
12 import java.awt.event.*;
13 import java.applet.AudioClip;
14 import java.net.URL;
15
16 public class LatihanAlam extends JFrame
17 {
18
19     JPanel northPanel=new JPanel();
20     JPanel westPanel=new JPanel();
21     JPanel centerPanel=new JPanel();
22     JPanel eastPanel=new JPanel();
23     JPanel southPanel=new JPanel();
24     JPanel southWestPanel=new JPanel();
25     JPanel southCenterPanel=new JPanel();
26     JPanel westPicPanel=new JPanel();
27     JSeparator line=new JSeparator();
28     Timer t;
29
30     JLabel handlerAns=new JLabel("0");
31     int handler;
32     int holder;
33
34
35     String hPath;
36     int numInt;
37     int numPer;
38     public int hit=1;
39
40     PathGambar sPath=new PathGambar();
41     String path=sPath.setThePath(hPath);
42
43     JLabel lblExit=new JLabel(new ImageIcon(path+"menu.jpg"));
44     JLabel lblPic=new JLabel(new ImageIcon( path + "12.jpg"));
45     JLabel lblGamePic=new JLabel(new ImageIcon(path + "putih.png"));
46     JLabel lblPic3=new JLabel(new ImageIcon (path + "gambargunung.gif"));
47     JLabel lblUserName=new JLabel("PILIH LAH KARAKTER BAHASA MANDARIN YANG
48     BENAR!",JLabel.CENTER);
49     JButton btnSuara=new JButton(new ImageIcon (path + "suara.jpg"));
50     JLabel lblPlay=new JLabel(new ImageIcon(path + "play.gif"));
51
52
53     public LatihanAlam()
54     {
55         JButton btnGunung;
56         JButton btnMatahari;
57         JButton btnBulan;
58         JButton btnAir;
59         JButton btnApi;
60         JButton btnKayu;
61
62         ButtonHandler listener = new ButtonHandler();
63         btnGunung = new JButton("GUNUNG");
64         btnGunung.addActionListener(listener);
65         btnGunung.setBackground(Color.red);
66         btnGunung.setFont(new Font ("TAHOMA",1,18));
67         add(btnGunung);
68         btnMatahari = new JButton("MATAHARI");
69         btnMatahari.addActionListener(listener);
70         btnMatahari.setBackground(Color.yellow);
71         btnMatahari.setFont(new Font ("TAHOMA",1,18));
72         add(btnMatahari);
73         btnBulan = new JButton("BULAN");
74         btnBulan.addActionListener(listener);
```

```
75         btnBulan.setBackground(Color.green);
76         btnBulan.setFont(new Font ("TAHOMA",1,18));
77         add(btnBulan);
78         btnAir = new JButton("AIR");
79         btnAir.addActionListener(listener);
80         btnAir.setBackground(Color.cyan);
81         btnAir.setFont(new Font ("TAHOMA",1,18));
82         add(btnAir);
83         btnApi = new JButton("API");
84         btnApi.addActionListener(listener);
85         btnApi.setBackground(Color.orange);
86         btnApi.setFont(new Font ("TAHOMA",1,18));
87         add(btnApi);
88         btnKayu = new JButton("KAYU");
89         btnKayu.addActionListener(listener);
90         btnKayu.setBackground(Color.magenta);
91         btnKayu.setFont(new Font ("TAHOMA",1,18));
92         add(btnKayu);
93
94         CursorMouse func=new CursorMouse();
95         func.MousePointer(this);
96
97
98
99         northPanel.setBackground(Color.WHITE);
100        westPanel.setBackground(Color.WHITE);
101        centerPanel.setBackground(Color.WHITE);
102        southPanel.setBackground(Color.WHITE);
103        eastPanel.setBackground(Color.WHITE);
104        southWestPanel.setBackground(Color.WHITE);
105        southCenterPanel.setBackground(Color.WHITE);
106        westPicPanel.setBackground(Color.WHITE);
107
108        lblUserName.setFont(new Font("OCR A Extended", Font.BOLD, 15));
109        lblUserName.setForeground(Color.RED);
110        northPanel.add(lblPic);
111        lblGamePic.add(lblPic3);
112
113        lblGamePic.add(btnGunung);
114        lblGamePic.add(btnMatahari);
115        lblGamePic.add(btnBulan);
116        lblGamePic.add(btnAir);
117        lblGamePic.add(btnApi);
118        lblGamePic.add(btnKayu);
119        lblGamePic.add(lblUserName);
120        lblPic3.setBounds(130,40,400,300);
121        lblUserName.setBounds(40,5,700,40);
122
123        btnGunung.setBounds(50,140,140,50);
124        btnMatahari.setBounds(50,210,140,50);
125        btnBulan.setBounds(280,50,140,50);
126        btnAir.setBounds(280,320,140,50);
127        btnApi.setBounds(530,140,140,50);
128        btnKayu.setBounds(530,210,140,50);
129
130        westPanel.add(westPicPanel);
131        westPanel.add(lblGamePic);
132
133        lblGamePic.add(lblPlay);
134        lblGamePic.add(lblExit);
135        lblPlay.setBounds(670,350,100,50);
136        lblPlay.setVisible(false);
137        lblExit.setBounds(670,350,100,50);
138
139
140        setTitle("Latihan Alam");
141        setLocation(100,25);
142        setSize(850,550);
143        setResizable(false);
144
145        getContentPane().add(BorderLayout.NORTH,northPanel);
146        getContentPane().add(BorderLayout.WEST,westPanel);
147        getContentPane().add(BorderLayout.CENTER,centerPanel);
148        getContentPane().add(BorderLayout.EAST,eastPanel);
149        getContentPane().add(BorderLayout.SOUTH,southPanel);
150
151        btnGunung.addActionListener (new ActionListener()
152        {
```

```
153         public void actionPerformed(ActionEvent e)
154         {
155             if (hit==1)
156             {
157                 playAudioResource("benar.WAV");
158                 lblPic3.setIcon( new ImageIcon(path + "gambarkayu.gif") );
159                 hit++;
160             }
161             else
162             {
163                 playAudioResource("salah.WAV");
164             }
165         }
166     }
167 });
168
169     btnKayu.addActionListener (new ActionListener()
170     {
171         public void actionPerformed(ActionEvent e)
172         {
173             if (hit==2)
174             {
175                 lblPic3.setIcon( new ImageIcon(path + "gambarapi.gif") );
176                 playAudioResource("benar.WAV");
177                 hit++;
178             }
179             else
180             {
181                 playAudioResource("salah.WAV");
182             }
183         }
184     }
185 });
186
187
188
189     btnApi.addActionListener (new ActionListener()
190     {
191         public void actionPerformed(ActionEvent e)
192         {
193             if (hit==3)
194             {
195                 lblPic3.setIcon( new ImageIcon(path +
196 "gambarmatahari.gif") );
197                 playAudioResource("benar.WAV");
198                 hit++;
199             }
200             else
201             {
202                 playAudioResource("salah.WAV");
203             }
204         }
205     }
206 });
207
208     btnMatahari.addActionListener (new ActionListener()
209     {
210         public void actionPerformed(ActionEvent e)
211         {
212             if (hit==4)
213             {
214                 lblPic3.setIcon( new ImageIcon(path +
215 "gambarbulan.gif") );
216                 playAudioResource("benar.WAV");
217                 hit++;
218             }
219             else
220             {
221                 playAudioResource("salah.WAV");
222             }
223         }
224     }
225 });
226
227     btnBulan.addActionListener (new ActionListener()
228     {
229         public void actionPerformed(ActionEvent e)
```

```
229         {
230             if (hit==5)
231             {
232                 lblPic3.setIcon( new ImageIcon(path + "gambarair.gif
);
233         playAudioResource("benar.WAV");
234
235             hit++;
236         }
237         else
238         {
239             playAudioResource("salah.WAV");
240         }
241     }
242 });
243
244         btnAir.addActionListener (new ActionListener()
245     {
246         public void actionPerformed(ActionEvent e)
247         {
248             if (hit==6)
249             {
250                 lblPic3.setIcon( new ImageIcon(path + "selesai.jpg")
251             playAudioResource("benar.WAV");
252
253                 hit++;
254             }
255             else
256             {
257                 playAudioResource("salah.WAV");
258             }
259         }
260     });
261
262     lblExit.addMouseListener(new MouseAdapter()
263     {
264         public void mouseClicked(MouseEvent e)
265         {
266             dispose();
267             MenuUtama menu=new MenuUtama();
268             menu.setVisible(true);
269         }
270     });
271
272
273
274     lblExit.addMouseListener(new MouseAdapter()
275     {
276         public void mouseEntered(MouseEvent arg0)
277         {
278             lblExit.setIcon( new ImageIcon(path + "menu1.jpg" ) );
279         }
280     });
281
282
283     lblExit.addMouseListener(new MouseAdapter()
284     {
285         public void mouseExited(MouseEvent arg0)
286         {
287             lblExit.setIcon( new ImageIcon(path + "menu.jpg" ) );
288         }
289     });
290
291     lblPlay.addMouseListener(new MouseAdapter()
292     {
293         public void mouseEntered(MouseEvent arg0)
294         {
295             lblPlay.setIcon( new ImageIcon(path + "play2.gif" ) );
296
297         }
298     });
299
300     lblPlay.addMouseListener(new MouseAdapter()
301     {
302         public void mouseExited(MouseEvent arg0)
303         {
304             lblPlay.setIcon( new ImageIcon(path + "play.gif" ) );
305         }
306     });
```



```
306     });
307
308     lblPlay.addMouseListener(new MouseAdapter()
309     {
310         public void mouseClicked(MouseEvent e)
311         {
312             //t.start();
313             lblGamePic.setVisible(true);
314             //lblPause.setVisible(true);
315             lblPlay.setVisible(false);
316         }
317     });
318
319
320     addWindowListener(new WindowAdapter()
321     {
322         public void windowClosing(WindowEvent we)
323         {
324             System.exit(0);
325         }
326     });
327
328 }
329
330 public static void main()
331 {
332
333
334     LatihanAlam game=new LatihanAlam();
335     game.setTitle("Latihan Alam");
336     game.setVisible(true);
337
338
339 }
340
341
342 private class ButtonHandler implements ActionListener {
343
344     public void actionPerformed(ActionEvent evt) {
345         String command = evt.getActionCommand();
346         if (command.equals("1")) {
347             playAudioResource(".WAV");
348         } else if (command.equals("2")) {
349             playAudioResource(".WAV");
350         } else if (command.equals("3")) {
351             playAudioResource(".WAV");
352         } else if (command.equals("4")) {
353             playAudioResource(".WAV");
354         } else if (command.equals("5")) {
355             playAudioResource(".WAV");
356         } else if (command.equals("6")) {
357             playAudioResource(".WAV");
358         } else if (command.equals("7")) {
359             playAudioResource(".WAV");
360         } else if (command.equals("8")) {
361             playAudioResource(".WAV");
362         } else if (command.equals("9")) {
363             playAudioResource(".WAV");
364         } else if (command.equals("10")) {
365             playAudioResource(".WAV");
366         }
367
368         if (command.startsWith("Play")) {
369             setCursor(Cursor.getDefaultCursor());
370         }
371     }
372 }
373
374 private void playAudioResource(String audioResourceName) {
375     ClassLoader cl = LatihanAlam.class.getClassLoader();
376     URL resourceURL = cl.getResource(audioResourceName);
377     if (resourceURL != null) {
378         AudioClip sound = JApplet.newAudioClip(resourceURL);
379         sound.play();
380     }
381 }
382
383 private void useCustomCursor(String imageResourceName) {
```

```
384         ClassLoader cl = ButtonGroup.class.getClassLoader();
385         URL resourceURL = cl.getResource(imageResourceName);
386         if (resourceURL != null) {
387             Toolkit toolkit = Toolkit.getDefaultToolkit();
388             Image image = toolkit.createImage(resourceURL);
389             Point hotSpot = new Point(7, 7);
390             Cursor cursor = toolkit.createCustomCursor(image, hotSpot, "smiley");
391             setCursor(cursor);
392         }
393     }
394 }
395 }
396
397
398
```

```
1  /*
2  -----
3      Nama File      : LatihanAngka.java
4      Dipanggil Oleh : BelajarAngka.java
5      Keterangan    : Latihan Angka
6      Dibuat Oleh   : SARMINTO NIM 0911500157
7      CP            : HP 081368580251, E-Mail sarminto_scorpio@yahoo.co.id, Blog
8      http://urangkite.blogspot.com
9      -----
10     */
11     import javax.swing.*;
12     import java.awt.*;
13     import java.awt.event.*;
14     import java.applet.AudioClip;
15     import java.net.URL;
16
17     public class LatihanAngka extends JFrame
18     {
19
20         JPanel northPanel=new JPanel();
21         JPanel westPanel=new JPanel();
22         JPanel centerPanel=new JPanel();
23         JPanel eastPanel=new JPanel();
24         JPanel southPanel=new JPanel();
25         JPanel southWestPanel=new JPanel();
26         JPanel southCenterPanel=new JPanel();
27         JPanel westPicPanel=new JPanel();
28
29         JSeparator line=new JSeparator();
30         Timer t;
31
32         JLabel handlerAns=new JLabel("0");
33         int handler;
34         int holder;
35
36
37         String hPath;
38         int numInt;
39         int numPer;
40         public int hit=1;
41
42         PathGambar sPath=new PathGambar();
43         String path=sPath.setThePath(hPath);
44
45
46         JLabel lblExit=new JLabel(new ImageIcon(path+"menu.jpg"));
47         JLabel lblPic=new JLabel(new ImageIcon( path + "12.jpg"));
48         JLabel lblGamePic=new JLabel(new ImageIcon(path + "putih.png"));
49         JLabel lblPic3=new JLabel(new ImageIcon (path + "04x.gif"));
50         JLabel lblUserName=new JLabel("PILIH LAH KARAKTER BAHASA MANDARIN YANG
51     BENAR!",JLabel.CENTER);
52         JButton btnSuara=new JButton(new ImageIcon (path + "suara.jpg"));
53         JLabel lblPlay=new JLabel(new ImageIcon(path + "play.gif"));
54
55     public LatihanAngka()
56     {
57         JButton btn1;
58         JButton btn2;
59         JButton btn3;
60         JButton btn4;
61         JButton btn5;
62         JButton btn6;
63         JButton btn7;
64         JButton btn8;
65         JButton btn9;
66         JButton btn10;
67
68         ButtonHandler listener = new ButtonHandler();
69         btn1 = new JButton("1");
70         btn1.addActionListener(listener);
71         btn1.setBackground(Color.red);
72         btn1.setFont(new Font ("TAHOMA",1,18));
73         add(btn1);
74         btn2 = new JButton("2");
```

```
75         btn2.addActionListener(listener);
76         btn2.setBackground(Color.yellow);
77         btn2.setFont(new Font ("TAHOMA",1,18));
78         add(btn2);
79         btn3 = new JButton("3");
80         btn3.addActionListener(listener);
81         btn3.setBackground(Color.lightGray);
82         btn3.setFont(new Font ("TAHOMA",1,18));
83         add(btn3);
84         btn4 = new JButton("4");
85         btn4.addActionListener(listener);
86         btn4.setBackground(Color.green);
87         add(btn4);
88         btn5 = new JButton("5");
89         btn5.addActionListener(listener);
90         btn5.setBackground(Color.gray);
91         btn5.setFont(new Font ("TAHOMA",1,18));
92         add(btn5);
93         btn6 = new JButton("6");
94         btn6.addActionListener(listener);
95         btn6.setBackground(Color.orange);
96         btn6.setFont(new Font ("TAHOMA",1,18));
97         add(btn6);
98         btn7 = new JButton("7");
99         btn7.addActionListener(listener);
100        btn7.setBackground(Color.cyan);
101        btn7.setFont(new Font ("TAHOMA",1,18));
102        add(btn7);
103        btn8 = new JButton("8");
104        btn8.addActionListener(listener);
105        btn8.setBackground(Color.magenta);
106        btn8.setFont(new Font ("TAHOMA",1,18));
107        add(btn8);
108        btn9 = new JButton("9");
109        btn9.addActionListener(listener);
110        btn9.setBackground(Color.pink);
111        btn9.setFont(new Font ("TAHOMA",1,18));
112        add(btn9);
113        btn10 = new JButton("10");
114        btn10.addActionListener(listener);
115        btn10.setBackground(Color.yellow);
116        btn10.setFont(new Font ("TAHOMA",1,18));
117        add(btn10);
118
119        CursorMouse func=new CursorMouse();
120        func.MousePointer(this);
121
122
123        northPanel.setBackground(Color.WHITE);
124        westPanel.setBackground(Color.WHITE);
125        centerPanel.setBackground(Color.WHITE);
126        southPanel.setBackground(Color.WHITE);
127        eastPanel.setBackground(Color.WHITE);
128        southWestPanel.setBackground(Color.WHITE);
129        southCenterPanel.setBackground(Color.WHITE);
130        westPicPanel.setBackground(Color.WHITE);
131
132
133        lblUserName.setFont(new Font("OCR A Extended", Font.BOLD, 15));
134
135        lblUserName.setForeground(Color.RED);
136
137        northPanel.add(lblPic);
138
139        lblGamePic.add(lblPic3);
140        lblGamePic.add(btn1);
141        lblGamePic.add(btn2);
142        lblGamePic.add(btn3);
143        lblGamePic.add(btn4);
144        lblGamePic.add(btn5);
145        lblGamePic.add(btn6);
146        lblGamePic.add(btn7);
147        lblGamePic.add(btn8);
148        lblGamePic.add(btn9);
149        lblGamePic.add(btn10);
150        lblGamePic.add(lblUserName);
151        lblPic3.setBounds(130,40,400,300);//400=panjang x label, 300=lebar y label,
130=layar kiri kanan, 40 layar atas bawah
```

```
152         lblUserName.setBounds(40,5,700,40);
153
154         btn1.setBounds(50,140,80,50);
155         btn2.setBounds(50,210,80,50);
156         btn3.setBounds(180,320,80,50);
157         btn4.setBounds(180,50,80,50);
158         btn5.setBounds(280,50,80,50);
159         btn6.setBounds(380,50,80,50);
160         btn7.setBounds(280,320,80,50);
161         btn8.setBounds(380,320,80,50);
162         btn9.setBounds(530,140,80,50);
163         btn10.setBounds(530,210,80,50);
164
165
166         westPanel.add(westPicPanel);
167         westPanel.add(lblGamePic);
168
169         lblGamePic.add(lblPlay);
170         lblGamePic.add(lblExit);
171
172         lblPlay.setBounds(670,350,100,50);
173         lblPlay.setVisible(false);
174         lblExit.setBounds(670,350,100,50);
175
176         getContentPane().add(BorderLayout.NORTH,northPanel);
177         getContentPane().add(BorderLayout.WEST,westPanel);
178
179         setTitle("Latihan Angka");
180         setLocation(100,25);
181         setSize(850,550);
182         setResizable(false);
183
184         getContentPane().add(BorderLayout.NORTH,northPanel);
185         getContentPane().add(BorderLayout.WEST,westPanel);
186         getContentPane().add(BorderLayout.CENTER,centerPanel);
187         getContentPane().add(BorderLayout.EAST,eastPanel);
188         getContentPane().add(BorderLayout.SOUTH,southPanel);
189
190
191         btn1.addActionListener (new ActionListener()
192         {
193             public void actionPerformed(ActionEvent e)
194             {
195                 if (hit==4)
196                 {
197                     playAudioResource("benar.WAV");
198                     lblPic3.setIcon( new ImageIcon(path + "05x.gif" ) );
199                     hit++;
200                 }
201                 else
202                 {
203                     playAudioResource("salah.WAV");
204                 }
205             }
206         });
207
208
209
210         btn2.addActionListener (new ActionListener()
211         {
212             public void actionPerformed(ActionEvent e)
213             {
214                 if (hit==6)
215                 {
216                     lblPic3.setIcon( new ImageIcon(path + "06x.gif" ) );
217                     playAudioResource("benar.WAV");
218                     hit++;
219                 }
220                 else
221                 {
222                     playAudioResource("salah.WAV");
223                 }
224             }
225         });
226
227
228         btn3.addActionListener (new ActionListener()
229         {
```

```
230     public void actionPerformed(ActionEvent e)
231     {
232         if (hit==3)
233         {
234             lblPic3.setIcon( new ImageIcon(path + "01x.gif") );
235             playAudioResource("benar.WAV");
236
237             hit++;
238         }
239         else
240         {
241             playAudioResource("salah.WAV");
242         }
243     }
244 });
245
246     btn4.addActionListener (new ActionListener()
247     {
248     public void actionPerformed(ActionEvent e)
249     {
250         if (hit==1)
251         {
252             lblPic3.setIcon( new ImageIcon(path + "09x.gif") );
253             playAudioResource("benar.WAV");
254
255             hit++;
256         }
257         else
258         {
259             playAudioResource("salah.WAV");
260         }
261     }
262 });
263
264     btn5.addActionListener (new ActionListener()
265     {
266     public void actionPerformed(ActionEvent e)
267     {
268         if (hit==5)
269         {
270             lblPic3.setIcon( new ImageIcon(path + "02x.gif") );
271             playAudioResource("benar.WAV");
272
273             hit++;
274         }
275         else
276         {
277             playAudioResource("salah.WAV");
278         }
279     }
280 });
281
282     btn6.addActionListener (new ActionListener()
283     {
284     public void actionPerformed(ActionEvent e)
285     {
286         if (hit==7)
287         {
288             lblPic3.setIcon( new ImageIcon(path + "07x.gif") );
289             playAudioResource("benar.WAV");
290
291             hit++;
292         }
293         else
294         {
295             playAudioResource("salah.WAV");
296         }
297     }
298 });
299
300     btn7.addActionListener (new ActionListener()
301     {
302     public void actionPerformed(ActionEvent e)
303     {
304         if (hit==8)
305         {
306             lblPic3.setIcon( new ImageIcon(path + "10x.gif") );
307             playAudioResource("benar.WAV");
308         }
309     }
310 });
```

```
308         hit++;
309     }
310     else
311     {
312         playAudioResource("salah.WAV");
313     }
314 }
315 });
316
317         btn8.addActionListener (new ActionListener()
318     {
319     public void actionPerformed(ActionEvent e)
320     {
321         if (hit==10)
322         {
323             lblPic3.setIcon( new ImageIcon(path + "selesai.jpg")
324         playAudioResource("benar.WAV");
325
326             hit++;
327         }
328         else
329         {
330             playAudioResource("salah.WAV");
331         }
332     }
333 });
334
335         btn9.addActionListener (new ActionListener()
336     {
337     public void actionPerformed(ActionEvent e)
338     {
339         if (hit==2)
340         {
341             lblPic3.setIcon( new ImageIcon(path + "03x.gif") );
342         playAudioResource("benar.WAV");
343
344             hit++;
345         }
346         else
347         {
348             playAudioResource("salah.WAV");
349         }
350     }
351 });
352
353         btn10.addActionListener (new ActionListener()
354     {
355     public void actionPerformed(ActionEvent e)
356     {
357         if (hit==9)
358         {
359             lblPic3.setIcon( new ImageIcon(path + "08x.gif") );
360         playAudioResource("benar.WAV");
361
362             hit++;
363         }
364         else
365         {
366             playAudioResource("salah.WAV");
367         }
368     }
369 });
370
371
372     lblExit.addMouseListener(new MouseAdapter()
373     {
374     public void mouseClicked(MouseEvent e)
375     {
376         dispose();
377         MenuUtama menu=new MenuUtama();
378         menu.setVisible(true);
379     }
380 });
381
382
383     lblExit.addMouseListener(new MouseAdapter()
384     {
385     public void mouseEntered(MouseEvent arg0)
```

```
386         {
387             lblExit.setIcon( new ImageIcon(path + "menul.jpg") );
388         }
389     });
390
391     lblExit.addMouseListener(new MouseAdapter()
392     {
393         public void mouseExited(MouseEvent arg0)
394         {
395             lblExit.setIcon( new ImageIcon(path + "menu.jpg") );
396         }
397     });
398
399     lblPlay.addMouseListener(new MouseAdapter()
400     {
401         public void mouseEntered(MouseEvent arg0)
402         {
403             lblPlay.setIcon( new ImageIcon(path + "play2.gif") );
404         }
405     }
406     });
407
408     lblPlay.addMouseListener(new MouseAdapter()
409     {
410         public void mouseExited(MouseEvent arg0)
411         {
412             lblPlay.setIcon( new ImageIcon(path + "play.gif") );
413         }
414     }
415     });
416
417     lblPlay.addMouseListener(new MouseAdapter()
418     {
419         public void mouseClicked(MouseEvent e)
420         {
421             //t.start();
422             lblGamePic.setVisible(true);
423             //lblPause.setVisible(true);
424             lblPlay.setVisible(false);
425         }
426     }
427     });
428
429     addWindowListener(new WindowAdapter()
430     {
431         public void windowClosing(WindowEvent we)
432         {
433             System.exit(0);
434         }
435     });
436
437
438
439 }
440
441 public static void main()
442 {
443
444     LatihanAngka game=new LatihanAngka();
445     game.setTitle("Latihan Angka");
446     game.setVisible(true);
447
448
449
450 }
451
452
453 private class ButtonHandler implements ActionListener {
454
455     public void actionPerformed(ActionEvent evt) {
456         String command = evt.getActionCommand();
457         if (command.equals("1")) {
458             playAudioResource(".WAV");
459         } else if (command.equals("2")) {
460             playAudioResource(".WAV");
461         } else if (command.equals("3")) {
462             playAudioResource(".WAV");
463         } else if (command.equals("4")) {
```



```
464         playAudioResource(".WAV");
465     } else if (command.equals("5")) {
466         playAudioResource(".WAV");
467     } else if (command.equals("6")) {
468         playAudioResource(".WAV");
469     } else if (command.equals("7")) {
470         playAudioResource(".WAV");
471     } else if (command.equals("8")) {
472         playAudioResource(".WAV");
473     } else if (command.equals("9")) {
474         playAudioResource(".WAV");
475     } else if (command.equals("10")) {
476         playAudioResource(".WAV");
477     }
478
479     if (command.startsWith("Play")) {
480         setCursor(Cursor.getDefaultCursor());
481     }
482 }
483
484
485 private void playAudioResource(String audioResourceName) {
486     ClassLoader cl = LatihanAngka.class.getClassLoader();
487     URL resourceURL = cl.getResource(audioResourceName);
488     if (resourceURL != null) {
489         AudioClip sound = JApplet.newAudioClip(resourceURL);
490         sound.play();
491     }
492 }
493
494 private void useCustomCursor(String imageResourceName) {
495     ClassLoader cl = ButtonGroup.class.getClassLoader();
496     URL resourceURL = cl.getResource(imageResourceName);
497     if (resourceURL != null) {
498         Toolkit toolkit = Toolkit.getDefaultToolkit();
499         Image image = toolkit.createImage(resourceURL);
500         Point hotSpot = new Point(7, 7);
501         Cursor cursor = toolkit.createCustomCursor(image, hotSpot, "smiley");
502         setCursor(cursor);
503     }
504 }
505
506 }
507
508
509
```

```
1  /*
2  -----
3      Nama File      : LatihanHewan.java
4      Dipanggil Oleh : BelajarHewan.java
5      Keterangan    : Latihan Hewan
6      Dibuat Oleh   : SARMINTO NIM 0911500157
7      CP            : HP 081368580251, E-Mail sarminto_scorpio@yahoo.co.id, Blog
8      http://urangkite.blogspot.com
9  -----
10 */
11 import javax.swing.*;
12 import java.awt.*;
13 import java.awt.event.*;
14 import java.applet.AudioClip;
15 import java.net.URL;
16
17 public class LatihanHewan extends JFrame
18 {
19
20     JPanel northPanel=new JPanel();
21     JPanel westPanel=new JPanel();
22     JPanel centerPanel=new JPanel();
23     JPanel eastPanel=new JPanel();
24     JPanel southPanel=new JPanel();
25     JPanel southWestPanel=new JPanel();
26     JPanel southCenterPanel=new JPanel();
27     JPanel westPicPanel=new JPanel();
28
29     JSeparator line=new JSeparator();
30     Timer t;
31
32     JLabel handlerAns=new JLabel("0");
33     int handler;
34     int holder;
35
36
37     String hPath;
38     int numInt;
39     int numPer;
40     public int hit=1;
41
42     PathGambar sPath=new PathGambar();
43     String path=sPath.setThePath(hPath);
44
45     JLabel lblExit=new JLabel(new ImageIcon(path+"menu.jpg"));
46     JLabel lblPic=new JLabel(new ImageIcon( path + "12.jpg"));
47     JLabel lblGamePic=new JLabel(new ImageIcon(path + "putih.png"));
48     JLabel lblPic3=new JLabel(new ImageIcon( path + "gambarkambing.gif"));
49     JLabel lblUserName=new JLabel("PILIH LAH KARAKTER BAHASA MANDARIN YANG
50     BENAR!",JLabel.CENTER);
51     JButton btnSuara=new JButton(new ImageIcon( path + "suara.jpg"));
52     JLabel lblPlay=new JLabel(new ImageIcon(path + "play.gif"));
53
54
55     public LatihanHewan()
56     {
57         JButton btnSapi;
58         JButton btnKelinci;
59         JButton btnKuda;
60         JButton btnIkan;
61         JButton btnBurung;
62         JButton btnKambing;
63
64         ButtonHandler listener = new ButtonHandler();
65         btnSapi = new JButton("SAPI");
66         btnSapi.addActionListener(listener);
67         btnSapi.setBackground(Color.yellow);
68         btnSapi.setFont(new Font ("TAHOMA",1,18));
69         add(btnSapi);
70         btnKelinci = new JButton("KELINCI");
71         btnKelinci.addActionListener(listener);
72         btnKelinci.setBackground(Color.red);
73         btnKelinci.setFont(new Font ("TAHOMA",1,18));
74         add(btnKelinci);
```

```
75         btnKuda = new JButton("KUDA");
76         btnKuda.addActionListener(listener);
77         btnKuda.setBackground(Color.cyan);
78         btnKuda.setFont(new Font ("TAHOMA",1,18));
79         add(btnKuda);
80         btnIkan = new JButton("IKAN");
81         btnIkan.addActionListener(listener);
82         btnIkan.setBackground(Color.green);
83         btnIkan.setFont(new Font ("TAHOMA",1,18));
84         add(btnIkan);
85         btnBurung = new JButton("BURUNG");
86         btnBurung.addActionListener(listener);
87         btnBurung.setBackground(Color.magenta);
88         btnBurung.setFont(new Font ("TAHOMA",1,18));
89         add(btnBurung);
90         btnKambing = new JButton("KAMBING");
91         btnKambing.addActionListener(listener);
92         btnKambing.setBackground(Color.pink);
93         btnKambing.setFont(new Font ("TAHOMA",1,18));
94         add(btnKambing);
95
96         CursorMouse func=new CursorMouse();
97         func.MousePointer(this);
98
99         northPanel.setBackground(Color.WHITE);
100        westPanel.setBackground(Color.WHITE);
101        centerPanel.setBackground(Color.WHITE);
102        southPanel.setBackground(Color.WHITE);
103        eastPanel.setBackground(Color.WHITE);
104        southWestPanel.setBackground(Color.WHITE);
105        southCenterPanel.setBackground(Color.WHITE);
106        westPicPanel.setBackground(Color.WHITE);
107
108
109        lblUserName.setFont(new Font("OCR A Extended", Font.BOLD, 15));
110        lblUserName.setForeground(Color.RED);
111
112        northPanel.add(lblPic);
113
114        lblGamePic.add(lblPic3);
115
116        lblGamePic.add(btnSapi);
117        lblGamePic.add(btnKelinci);
118        lblGamePic.add(btnKuda);
119        lblGamePic.add(btnIkan);
120        lblGamePic.add(btnBurung);
121        lblGamePic.add(btnKambing);
122        lblGamePic.add(lblUserName);
123        lblPic3.setBounds(130,40,400,300);
124        lblUserName.setBounds(40,5,700,40);
125
126        btnSapi.setBounds(50,140,140,50);
127        btnKelinci.setBounds(50,210,140,50);
128        btnKuda.setBounds(280,50,140,50);
129        btnIkan.setBounds(280,320,140,50);
130        btnBurung.setBounds(530,140,140,50);
131        btnKambing.setBounds(530,210,140,50);
132
133        westPanel.add(westPicPanel);
134        westPanel.add(lblGamePic);
135
136        lblGamePic.add(lblPlay);
137        lblGamePic.add(lblExit);
138
139        lblPlay.setBounds(670,350,100,50);
140        lblPlay.setVisible(false);
141        lblExit.setBounds(670,350,100,50);
142
143        getContentPane().add(BorderLayout.NORTH,northPanel);
144        getContentPane().add(BorderLayout.WEST,westPanel);
145
146        setTitle("Latihan Hewan");
147        setLocation(100,25);
148        setSize(850,550);
149        setResizable(false);
150
151        getContentPane().add(BorderLayout.NORTH,northPanel);
152        getContentPane().add(BorderLayout.WEST,westPanel);
```

```
153         getContentPane().add(BorderLayout.CENTER,centerPanel);
154         getContentPane().add(BorderLayout.EAST, eastPanel);
155         getContentPane().add(BorderLayout.SOUTH, southPanel);
156
157         btnSapi.addActionListener (new ActionListener()
158         {
159             public void actionPerformed(ActionEvent e)
160             {
161                 if (hit==6)
162                 {
163                     playAudioResource("benar.WAV");
164                     lblPic3.setIcon( new ImageIcon(path + "selesai.jpg" ) );
165                     hit++;
166                 }
167                 else
168                 {
169                     playAudioResource("salah.WAV");
170                 }
171             }
172         });
173     };
174
175     btnKelinci.addActionListener (new ActionListener()
176     {
177         public void actionPerformed(ActionEvent e)
178         {
179             if (hit==5)
180             {
181                 lblPic3.setIcon( new ImageIcon(path + "gambarsapi.gif" ) );
182                 playAudioResource("benar.WAV");
183                 hit++;
184             }
185             else
186             {
187                 playAudioResource("salah.WAV");
188             }
189         }
190     });
191
192     btnKuda.addActionListener (new ActionListener()
193     {
194         public void actionPerformed(ActionEvent e)
195         {
196             if (hit==3)
197             {
198                 lblPic3.setIcon( new ImageIcon(path +
199 "gambarburung.gif" ) );
200                 playAudioResource("benar.WAV");
201                 hit++;
202             }
203             else
204             {
205                 playAudioResource("salah.WAV");
206             }
207         }
208     });
209
210     btnIkan.addActionListener (new ActionListener()
211     {
212         public void actionPerformed(ActionEvent e)
213         {
214             if (hit==2)
215             {
216                 lblPic3.setIcon( new ImageIcon(path + "gambarkuda.gi
217 );
218                 playAudioResource("benar.WAV");
219                 hit++;
220             }
221             else
222             {
223                 playAudioResource("salah.WAV");
224             }
225         }
226     });
227
228 }
```

```
229     });
230
231         btnBurung.addActionListener (new ActionListener()
232     {
233         public void actionPerformed(ActionEvent e)
234         {
235             if (hit==4)
236             {
237                 lblPic3.setIcon( new ImageIcon(path +
238 "gambarkelinci.gif" ) );
239                 playAudioResource("benar.WAV");
240
241                 hit++;
242             }
243             else
244             {
245                 playAudioResource("salah.WAV");
246             }
247         }
248     });
249
250         btnKambing.addActionListener (new ActionListener()
251     {
252         public void actionPerformed(ActionEvent e)
253         {
254             if (hit==1)
255             {
256                 lblPic3.setIcon( new ImageIcon(path + "gambarikan.gi
257 );
258                 playAudioResource("benar.WAV");
259
260                 hit++;
261             }
262             else
263             {
264                 playAudioResource("salah.WAV");
265             }
266         }
267     });
268
269     lblExit.addMouseListener(new MouseAdapter()
270     {
271         public void mouseClicked(MouseEvent e)
272         {
273             dispose();
274             MenuUtama menu=new MenuUtama();
275             menu.setVisible(true);
276         }
277     }
278 );
279
280
281
282     lblExit.addMouseListener(new MouseAdapter()
283     {
284         public void mouseEntered(MouseEvent arg0)
285         {
286             lblExit.setIcon( new ImageIcon(path + "menu1.jpg" ) );
287         }
288     }
289 );
290
291     lblExit.addMouseListener(new MouseAdapter()
292     {
293         public void mouseExited(MouseEvent arg0)
294         {
295             lblExit.setIcon( new ImageIcon(path + "menu.jpg" ) );
296         }
297     }
298 );
299     lblPlay.addMouseListener(new MouseAdapter()
300     {
301         public void mouseEntered(MouseEvent arg0)
302         {
303             lblPlay.setIcon( new ImageIcon(path + "play2.gif" ) );
304
```

```
305     }
306     });
307
308     lblPlay.addMouseListener(new MouseAdapter()
309     {
310         public void mouseExited(MouseEvent arg0)
311         {
312             lblPlay.setIcon( new ImageIcon(path + "play.gif") );
313         }
314     });
315
316     lblPlay.addMouseListener(new MouseAdapter()
317     {
318         public void mouseClicked(MouseEvent e)
319         {
320             //t.start();
321             lblGamePic.setVisible(true);
322             //lblPause.setVisible(true);
323             lblPlay.setVisible(false);
324         }
325     });
326
327     addWindowListener(new WindowAdapter()
328     {
329         public void windowClosing(WindowEvent we)
330         {
331             {
332                 System.exit(0);
333             }
334         });
335
336
337
338     }
339
340     public static void main()
341     {
342
343         LatihanHewan game=new LatihanHewan();
344         game.setTitle("Latihan Hewan");
345         game.setVisible(true);
346
347
348
349     }
350
351     private class ButtonHandler implements ActionListener {
352
353         public void actionPerformed(ActionEvent evt) {
354             String command = evt.getActionCommand();
355             if (command.equals("1")) {
356                 playAudioResource(".WAV");
357             } else if (command.equals("2")) {
358                 playAudioResource(".WAV");
359             } else if (command.equals("3")) {
360                 playAudioResource(".WAV");
361             } else if (command.equals("4")) {
362                 playAudioResource(".WAV");
363             } else if (command.equals("5")) {
364                 playAudioResource(".WAV");
365             } else if (command.equals("6")) {
366                 playAudioResource(".WAV");
367             } else if (command.equals("7")) {
368                 playAudioResource(".WAV");
369             } else if (command.equals("8")) {
370                 playAudioResource(".WAV");
371             } else if (command.equals("9")) {
372                 playAudioResource(".WAV");
373             } else if (command.equals("10")) {
374                 playAudioResource(".WAV");
375             }
376         }
377
378         if (command.startsWith("Play")) {
379             setCursor(Cursor.getDefaultCursor());
380         }
381     }
382 }
```

```
383
384     private void playAudioResource(String audioResourceName) {
385         ClassLoader cl = LatihanHewan.class.getClassLoader();
386         URL resourceURL = cl.getResource(audioResourceName);
387         if (resourceURL != null) {
388             AudioClip sound = JApplet.newAudioClip(resourceURL);
389             sound.play();
390         }
391     }
392
393     private void useCustomCursor(String imageResourceName) {
394         ClassLoader cl = ButtonGroup.class.getClassLoader();
395         URL resourceURL = cl.getResource(imageResourceName);
396         if (resourceURL != null) {
397             Toolkit toolkit = Toolkit.getDefaultToolkit();
398             Image image = toolkit.createImage(resourceURL);
399             Point hotSpot = new Point(7, 7);
400             Cursor cursor = toolkit.createCustomCursor(image, hotSpot, "smiley");
401             setCursor(cursor);
402         }
403     }
404 }
405 }
406
407
408
```

```
1  /*
2  -----
3      Nama File      : LatihanTubuh.java
4      Dipanggil Oleh : BelajarTubuh.java
5      Keterangan    : Latihan Tubuh Manusia
6      Dibuat Oleh   : SARMINTO NIM 0911500157
7      CP            : HP 081368580251, E-Mail sarminto_scorpio@yahoo.co.id, Blog
      http://urangkite.blogspot.com
8  -----
9  */
10 import javax.swing.*;
11 import java.awt.*;
12 import java.awt.event.*;
13 import java.applet.AudioClip;
14 import java.net.URL;
15
16 public class LatihanTubuh extends JFrame
17 {
18
19     JPanel northPanel=new JPanel();
20     JPanel westPanel=new JPanel();
21     JPanel centerPanel=new JPanel();
22     JPanel eastPanel=new JPanel();
23     JPanel southPanel=new JPanel();
24     JPanel southWestPanel=new JPanel();
25     JPanel southCenterPanel=new JPanel();
26     JPanel westPicPanel=new JPanel();
27     JSeparator line=new JSeparator();
28     Timer t;
29
30     JLabel handlerAns=new JLabel("0");
31     int handler;
32     int holder;
33
34
35     String hPath;
36     int numInt;
37     int numPer;
38     public int hit=1;
39
40     PathGambar sPath=new PathGambar();
41     String path=sPath.setThePath(hPath);
42
43     JLabel lblExit=new JLabel(new ImageIcon(path+"menu.jpg"));
44     JLabel lblPic=new JLabel(new ImageIcon( path + "12.jpg"));
45     JLabel lblGamePic=new JLabel(new ImageIcon(path + "putih.png"));
46     JLabel lblPic3=new JLabel(new ImageIcon (path + "gambarorang.gif"));
47     JLabel lblUserName=new JLabel("PILIH LAH KARAKTER BAHASA MANDARIN YANG
48     BENAR!",JLabel.CENTER);
49     JButton btnSuara=new JButton(new ImageIcon (path + "suara.jpg"));
50     JLabel lblPlay=new JLabel(new ImageIcon(path + "play.gif"));
51
52
53     public LatihanTubuh()
54     {
55         JButton btnKepala;
56         JButton btnOrang;
57         JButton btnMulut;
58         JButton btnTangan;
59         JButton btnTelinga;
60         JButton btnGigi;
61
62         ButtonHandler listener = new ButtonHandler();
63         btnKepala = new JButton("KEPALA");
64         btnKepala.addActionListener(listener);
65         btnKepala.setBackground(Color.yellow);
66         btnKepala.setFont(new Font ("TAHOMA",1,18));
67         add(btnKepala);
68         btnOrang = new JButton("ORANG");
69         btnOrang.addActionListener(listener);
70         btnOrang.setBackground(Color.red);
71         btnOrang.setFont(new Font ("TAHOMA",1,18));
72         add(btnOrang);
73         btnMulut = new JButton("MULUT");
74         btnMulut.addActionListener(listener);
```



```
75     btnMulut.setBackground(Color.pink);
76     btnMulut.setFont(new Font ("TAHOMA",1,18));
77     add(btnMulut);
78         btnTangan = new JButton("TANGAN");
79     btnTangan.addActionListener(listener);
80     btnTangan.setBackground(Color.gray);
81     btnTangan.setFont(new Font ("TAHOMA",1,18));
82     add(btnTangan);
83         btnTelinga = new JButton("TELINGA");
84     btnTelinga.addActionListener(listener);
85     btnTelinga.setBackground(Color.cyan);
86     btnTelinga.setFont(new Font ("TAHOMA",1,18));
87     add(btnTelinga);
88         btnGigi = new JButton("GIGI");
89     btnGigi.addActionListener(listener);
90     btnGigi.setBackground(Color.white);
91     btnGigi.setFont(new Font ("TAHOMA",1,18));
92     add(btnGigi);
93
94     CursorMouse func=new CursorMouse();
95     func.MousePointer(this);
96
97     northPanel.setBackground(Color.WHITE);
98     westPanel.setBackground(Color.WHITE);
99     centerPanel.setBackground(Color.WHITE);
100    southPanel.setBackground(Color.WHITE);
101    eastPanel.setBackground(Color.WHITE);
102    southWestPanel.setBackground(Color.WHITE);
103    southCenterPanel.setBackground(Color.WHITE);
104    westPicPanel.setBackground(Color.WHITE);
105
106    lblUserName.setFont(new Font("OCR A Extended", Font.BOLD, 15));
107    lblUserName.setForeground(Color.RED);
108
109    northPanel.add(lblPic);
110
111    lblGamePic.add(lblPic3);
112
113    lblGamePic.add(btnKepala);
114    lblGamePic.add(btnOrang);
115    lblGamePic.add(btnMulut);
116    lblGamePic.add(btnTangan);
117    lblGamePic.add(btnTelinga);
118    lblGamePic.add(btnGigi);
119    lblGamePic.add(lblUserName);
120    lblPic3.setBounds(130,40,400,300);
121    lblUserName.setBounds(40,5,700,40);
122
123    btnKepala.setBounds(50,140,140,50);
124    btnOrang.setBounds(50,210,140,50);
125    btnMulut.setBounds(280,50,140,50);
126    btnTangan.setBounds(280,320,140,50);
127    btnTelinga.setBounds(530,140,140,50);
128    btnGigi.setBounds(530,210,140,50);
129
130
131    westPanel.add(westPicPanel);
132    westPanel.add(lblGamePic);
133
134    lblGamePic.add(lblPlay);
135    lblGamePic.add(lblExit);
136
137
138    lblPlay.setBounds(670,350,100,50);
139    lblPlay.setVisible(false);
140    lblExit.setBounds(670,350,100,50);
141
142    getContentPane().add(BorderLayout.NORTH,northPanel);
143    getContentPane().add(BorderLayout.WEST,westPanel);
144
145    setTitle("Latihan Tubuh");
146    setLocation(100,25);
147    setSize(850,550);
148    setResizable(false);
149
150    getContentPane().add(BorderLayout.NORTH,northPanel);
151    getContentPane().add(BorderLayout.WEST,westPanel);
152    getContentPane().add(BorderLayout.CENTER,centerPanel);
```

```
153         getContentPane().add(BorderLayout.EAST, eastPanel);
154         getContentPane().add(BorderLayout.SOUTH, southPanel);
155
156         btnOrang.addActionListener (new ActionListener()
157         {
158             public void actionPerformed(ActionEvent e)
159             {
160                 if (hit==1)
161                 {
162                     playAudioResource("benar.WAV");
163                     lblPic3.setIcon( new ImageIcon(path + "gambarkepala.gif" ) );
164                     hit++;
165                 }
166                 else
167                 {
168                     playAudioResource("salah.WAV");
169                 }
170             }
171         });
172
173         btnKepala.addActionListener (new ActionListener()
174         {
175             public void actionPerformed(ActionEvent e)
176             {
177                 if (hit==2)
178                 {
179                     lblPic3.setIcon( new ImageIcon(path + "gambarmulut.gif" ) );
180                     playAudioResource("benar.WAV");
181                     hit++;
182                 }
183                 else
184                 {
185                     playAudioResource("salah.WAV");
186                 }
187             }
188         });
189
190         btnMulut.addActionListener (new ActionListener()
191         {
192             public void actionPerformed(ActionEvent e)
193             {
194                 if (hit==3)
195                 {
196                     lblPic3.setIcon( new ImageIcon(path +
197 "gambartangan.gif" ) );
198                     playAudioResource("benar.WAV");
199                     hit++;
200                 }
201                 else
202                 {
203                     playAudioResource("salah.WAV");
204                 }
205             }
206         });
207
208         btnTangan.addActionListener (new ActionListener()
209         {
210             public void actionPerformed(ActionEvent e)
211             {
212                 if (hit==4)
213                 {
214                     lblPic3.setIcon( new ImageIcon(path +
215 "gambartelinga.gif" ) );
216                     playAudioResource("benar.WAV");
217                     hit++;
218                 }
219                 else
220                 {
221                     playAudioResource("salah.WAV");
222                 }
223             }
224         });
225
226     });
227
228
```

```
229
230         btnTelinga.addActionListener (new ActionListener()
231     {
232         public void actionPerformed(ActionEvent e)
233         {
234             if (hit==5)
235             {
236                 lblPic3.setIcon( new ImageIcon(path + "gambargigi.gi
);
237         playAudioResource("benar.WAV");
238
239             hit++;
240         }
241         else
242         {
243             playAudioResource("salah.WAV");
244         }
245     }
246 });
247
248         btnGigi.addActionListener (new ActionListener()
249     {
250         public void actionPerformed(ActionEvent e)
251         {
252             if (hit==6)
253             {
254                 lblPic3.setIcon( new ImageIcon(path + "selesai.jpg")
255             playAudioResource("benar.WAV");
256
257             hit++;
258         }
259         else
260         {
261             playAudioResource("salah.WAV");
262         }
263     }
264 });
265
266     lblExit.addMouseListener(new MouseAdapter()
267     {
268         public void mouseClicked(MouseEvent e)
269         {
270             dispose();
271             MenuUtama menu=new MenuUtama();
272             menu.setVisible(true);
273         }
274     });
275
276     lblExit.addMouseListener(new MouseAdapter()
277     {
278         public void mouseEntered(MouseEvent arg0)
279         {
280             lblExit.setIcon( new ImageIcon(path + "menul.jpg") );
281         }
282     });
283
284     lblExit.addMouseListener(new MouseAdapter()
285     {
286         public void mouseExited(MouseEvent arg0)
287         {
288             lblExit.setIcon( new ImageIcon(path + "menu.jpg") );
289         }
290     });
291
292     lblPlay.addMouseListener(new MouseAdapter()
293     {
294         public void mouseEntered(MouseEvent arg0)
295         {
296             lblPlay.setIcon( new ImageIcon(path + "play2.gif") );
297         }
298     });
299
300     lblPlay.addMouseListener(new MouseAdapter()
301     {
302         public void mouseExited(MouseEvent arg0)
```

```
306         {
307             lblPlay.setIcon( new ImageIcon(path + "play.gif") );
308         }
309     });
310
311     lblPlay.addMouseListener(new MouseAdapter()
312     {
313         public void mouseClicked(MouseEvent e)
314         {
315             //t.start();
316             lblGamePic.setVisible(true);
317             lblPlay.setVisible(false);
318         }
319     });
320
321
322     addWindowListener(new WindowAdapter()
323     {
324         public void windowClosing(WindowEvent we)
325         {
326             System.exit(0);
327         }
328     });
329
330 }
331
332 public static void main()
333 {
334
335     LatihanTubuh game=new LatihanTubuh();
336     game.setTitle("Latihan Tubuh");
337     game.setVisible(true);
338 }
339
340
341 private class ButtonHandler implements ActionListener {
342
343     public void actionPerformed(ActionEvent evt) {
344         String command = evt.getActionCommand();
345         if (command.equals("1")) {
346             playAudioResource(".WAV");
347         } else if (command.equals("2")) {
348             playAudioResource(".WAV");
349         } else if (command.equals("3")) {
350             playAudioResource(".WAV");
351         } else if (command.equals("4")) {
352             playAudioResource(".WAV");
353         } else if (command.equals("5")) {
354             playAudioResource(".WAV");
355         } else if (command.equals("6")) {
356             playAudioResource(".WAV");
357         } else if (command.equals("7")) {
358             playAudioResource(".WAV");
359         } else if (command.equals("8")) {
360             playAudioResource(".WAV");
361         } else if (command.equals("9")) {
362             playAudioResource(".WAV");
363         } else if (command.equals("10")) {
364             playAudioResource(".WAV");
365         }
366
367         if (command.startsWith("Play")) {
368             setCursor(Cursor.getDefaultCursor());
369         }
370     }
371 }
372
373 private void playAudioResource(String audioResourceName) {
374     ClassLoader cl = LatihanTubuh.class.getClassLoader();
375     URL resourceURL = cl.getResource(audioResourceName);
376     if (resourceURL != null) {
377         AudioClip sound = JApplet.newAudioClip(resourceURL);
378         sound.play();
379     }
380 }
381
382 private void useCustomCursor(String imageResourceName) {
383     ClassLoader cl = ButtonGroup.class.getClassLoader();
```

```
384         URL resourceURL = cl.getResource(imageResourceName);
385         if (resourceURL != null) {
386             Toolkit toolkit = Toolkit.getDefaultToolkit();
387             Image image = toolkit.createImage(resourceURL);
388             Point hotSpot = new Point(7, 7);
389             Cursor cursor = toolkit.createCustomCursor(image, hotSpot, "smiley");
390             setCursor(cursor);
391         }
392     }
393 }
394 }
395
396
397
```

```
1  /*
2  -----
3      Nama File      : PathGambar.java
4      Dipanggil Oleh : -
5      Keterangan    : Path Gambar. Berfungsi untuk memanggil file gambar yang telah
ditentukan
6      Dibuat Oleh   : SARMINTO NIM 0911500157
7      CP           : HP 081368580251, E-Mail sarminto_scorpio@yahoo.co.id, Blog
http://urangkite.blogspot.com
8  -----
9  */
10 public class PathGambar{
11     String tPath;
12
13     public PathGambar()
14     {
15     }
16
17     public String setThePath(String p)
18     {
19
20         p="D:\\MINTO\\STMIK ATMA LUHUR\\SEMESTER VII\\KP\\AplikasiMandarin\\Gambar\\";
21         return p;
22     }
23 }
24
```

```
1  /*
2  -----
3      Nama File      : PathMusik.java
4      Dipanggil Oleh : -
5      Keterangan    : Path Musik. Berfungsi untuk memanggil file musik yang telah ditentukan
6      Dibuat Oleh   : SARMINTO NIM0911500157
7      CP            : HP 081368580251, E-Mail sarminto_scorpio@yahoo.co.id, Blog
      http://urangkite.blogspot.com
8  -----
9  */
10 public class PathMusik{
11     String tPath;
12
13     public PathMusik()
14     {
15     }
16
17     public String setThePath(String p)
18     {
19
20         p="D:\\MINTO\\STMIK ATMA LUHUR\\SEMESTER VII\\KP\\AplikasiMandarin\\Musik\\";
21         return p;
22     }
23 }
24
```