

LAMPIRAN A
SOURCE CODE SISTEM

```
#include<Servo.h>

#include <LiquidCrystal_I2C.h>

#include <Wire.h>

LiquidCrystal_I2C lcd ( 0x3F, 16, 2 );

#include <SoftwareSerial.h>

#include <String.h>

SoftwareSerial gsmSerial(7, 8);

int pos = 0;

int pir = 10;

int pirState = LOW;

int val_pir = 0;

Servo servo;

void setup() {

  Serial.begin(9600);

  gsmSerial.begin(19200);

  lcd.begin();

  pinMode(2, INPUT);

  pinMode(3, INPUT);

  pinMode(4, INPUT);
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pinMode(5, INPUT);
pinMode (11, OUTPUT);
pinMode (pir, INPUT);
lcd.setCursor ( 0 , 0 );
lcd.print("Status Rumah:");
}
void loop()
{

if (digitalRead(2) == LOW)
{
Serial.println ("PINTU TERBUKA");
lcd.setCursor ( 0 , 1 );
lcd.print("terbuka r.tamu ");
digitalWrite (11, HIGH);
pintudepan();
delay(3000);
}
else
{
Serial.println ("TERTUTUP");
lcd.setCursor ( 0 , 1 );
digitalWrite (11, LOW);
lcd.print("tertutup");
}
}

```

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if (digitalRead(3) == LOW)
{
  lcd.setCursor ( 0 , 1 );
  lcd.print("terbuka jd.tamu ");
  digitalWrite (11, HIGH);
  jendelaruangtamu();
  delay(3000);
}
else
{
  lcd.setCursor ( 0 , 1 );
  digitalWrite (11, LOW);
  lcd.print ("Tertutup ");
}

if (digitalRead(4) == LOW)
{
  lcd.setCursor ( 0 , 1 );
  lcd.print("terbuka jd.kamar ");
  digitalWrite (11, HIGH);
  jendelakamar();
  delay(3000);
}
else

```

```

{
  lcd.setCursor ( 0 , 1 );
  digitalWrite (11, LOW);
  lcd.print ("Tertutup ");
}

if (digitalRead(5) == LOW)
{
  lcd.setCursor ( 0 , 1 );
  lcd.print("Terbuka pin.kamar ");
  digitalWrite (11, HIGH);
  pintukamar();
  delay(3000);
}
else
{
  lcd.setCursor ( 0 , 1 );
  digitalWrite (11, LOW);
  lcd.print ("tertutup ");
}
val_pir = digitalRead(pir);
if (val_pir == HIGH)
{
  lcd.setCursor ( 0 , 1 );
  digitalWrite (11, HIGH);

```

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    lcd.print("GERAKAN Detec ");
    pirms();
    delay(3000);
}
else
{
    lcd.setCursor ( 0 , 1 );
    digitalWrite (11, LOW);
    lcd.print ("tertutup ");

}

```

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    delay(500);
}
void aktif()
{
    gsmSerial.print("AT+CMGF=1\r"); //Because we want to send the SMS in text
mode
    delay(100);
    gsmSerial.println("AT + CMGS = \"+6282122303423\""); //send sms message,
be careful need to add a country code before the cellphone number
    delay(100);
}

```

```

gsmSerial.println("SISTEM AKTIF");//the content of the message
delay(100);

gsmSerial.println((char)26);//the ASCII code of the ctrl+z is 26
delay(100);
}

void pintudepan()
{
    gsmSerial.print("AT+CMGF=1\r"); //Because we want to send the SMS in text
mode
    delay(100);

    gsmSerial.println("AT + CMGS = \"+6282122303423\"");//send sms message,
be careful need to add a country code before the cellphone number

    delay(100);

    gsmSerial.println("Pintu Depan Terbuka");//the content of the message

    delay(100);

    gsmSerial.println((char)26);//the ASCII code of the ctrl+z is 26

    delay(100);
}

void jendelaruangtamu()
{
    gsmSerial.print("AT+CMGF=1\r"); //Because we want to send the SMS in text
mode

    delay(100);

    gsmSerial.println("AT + CMGS = \"+6282122303423\"");//send sms message,
be careful need to add a country code before the cellphone number

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    delay(100);

    gsmSerial.println("JENDELA RUANG TAMU TERBUKA");//the content of
the message

    delay(100);

    gsmSerial.println((char)26);//the ASCII code of the ctrl+z is 26

    delay(100);
}

void pintukamar()
{
    gsmSerial.print("AT+CMGF=1\r"); //Because we want to send the SMS in text
mode

    delay(100);

    gsmSerial.println("AT + CMGS = \"+6282122303423\"");//send sms message,
be careful need to add a country code before the cellphone number

    delay(100);

    gsmSerial.println("Pintu Kamar Terbuka");//the content of the message

    delay(100);

    gsmSerial.println((char)26);//the ASCII code of the ctrl+z is 26

    delay(100);
}

void jendelakamar()
{
    gsmSerial.print("AT+CMGF=1\r"); //Because we want to send the SMS in text
mode

    delay(100);
}

```



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    gsmSerial.println("AT + CMGS = \"+6282122303423\"); //send sms message,
    be careful need to add a country code before the cellphone number

    delay(100);

    gsmSerial.println("Jendela Kamar Terbuka");//the content of the message

    delay(100);

    gsmSerial.println((char)26);//the ASCII code of the ctrl+z is 26

    delay(100);
}

void pirmsms()
{
    gsmSerial.print("AT+CMGF=1\r"); //Because we want to send the SMS in text
    mode

    delay(100);

    gsmSerial.println("AT + CMGS = \"+6282122303423\"); //send sms message,
    be careful need to add a country code before the cellphone number

    delay(100);

    gsmSerial.println("TERJADI GERAKAN DI DAPUR");//the content of the
    message

    delay(100);

    gsmSerial.println((char)26);//t009e ASCII code of the ctrl+z is 26

    delay(100);
}

```