

Lampiran

```
/*----- Arduino Fire Fighting Robot Code by Nicolas Juan Alexander Liawijaya----- */
```

```
#include <Servo.h>
```

```
Servo myservo;
```

```
int pos = 0;
```

```
boolean fire = false;
```

```
#define Left_S 9 // left sensor
```

```
#define Right_S 10 // right sensor
```

```
#define Forward_S 8 //front sensor
```

```
#define LM1 2 // left motor
```

```
#define LM2 3 // left motor
```

```
#define RM1 4 // right motor
```

```
#define RM2 5 // right motor
```

```
#define pump 6
```

```
void setup()
```

```
{
```

```
pinMode(Left_S, INPUT);
```

```
pinMode(Right_S, INPUT);
```

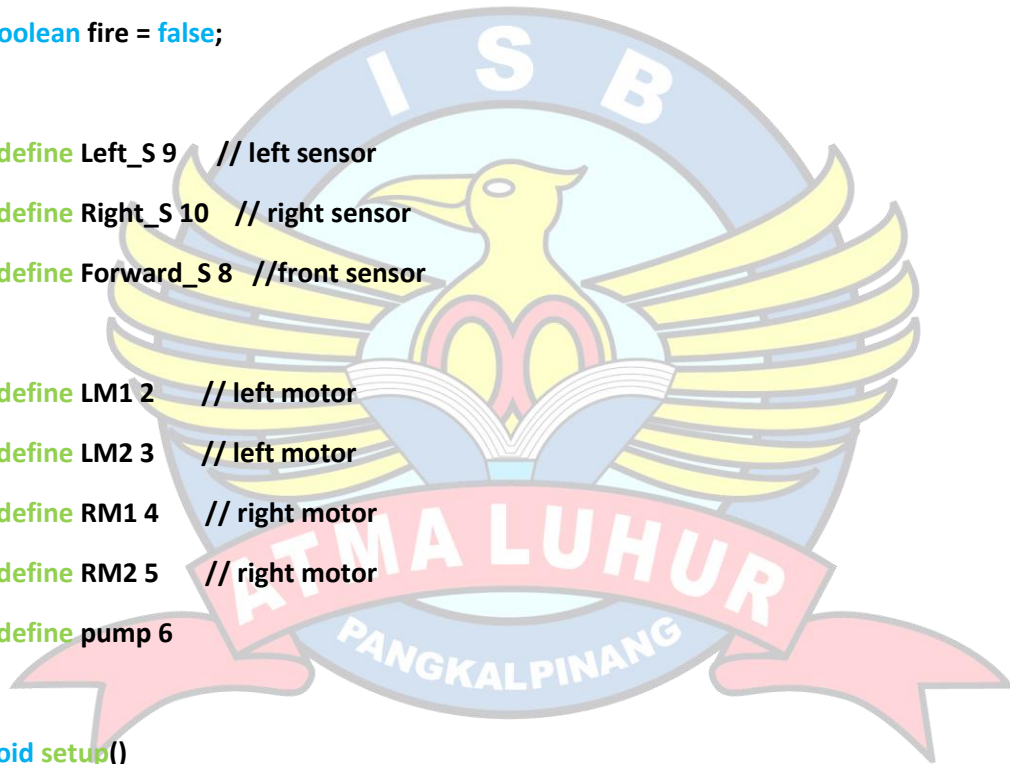
```
pinMode(Forward_S, INPUT);
```

```
pinMode(LM1, OUTPUT);
```

```
pinMode(LM2, OUTPUT);
```

```
pinMode(RM1, OUTPUT);
```

```
pinMode(RM2, OUTPUT);
```



```
pinMode(pump, OUTPUT);
```

```
myservo.attach(11);
```

```
myservo.write(90);
```

```
}
```

```
void put_off_fire()
```

```
{
```

```
    delay (500);
```

```
    digitalWrite(LM1, HIGH);
```

```
    digitalWrite(LM2, HIGH);
```

```
    digitalWrite(RM1, HIGH);
```

```
    digitalWrite(RM2, HIGH);
```

```
    digitalWrite(pump, HIGH); delay(500);
```

```
    for (pos = 50; pos <= 130; pos += 1) {
```

```
        myservo.write(pos);
```

```
        delay(10);
```

```
    }
```

```
    for (pos = 130; pos >= 50; pos -= 1) {
```

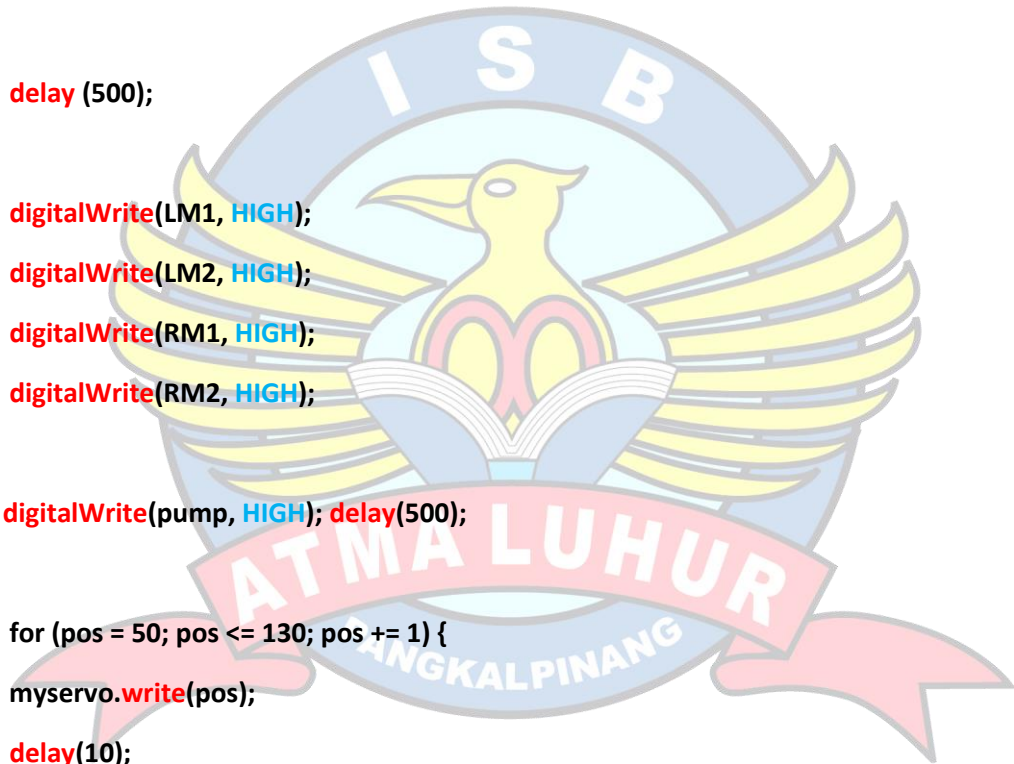
```
        myservo.write(pos);
```

```
        delay(10);
```

```
    }
```

```
    digitalWrite(pump,LOW);
```

```
    myservo.write(90);
```



```
fire=false;
}

void loop()
{
myservo.write(90); //Sweep_Servo();

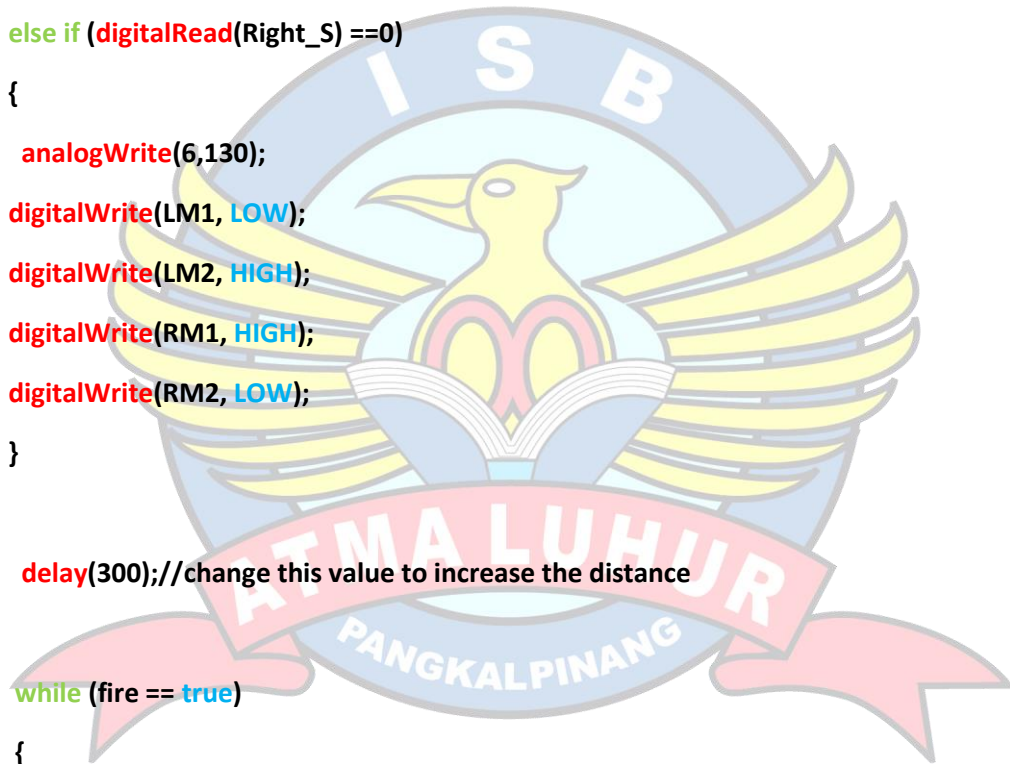
if (digitalRead(Left_S) ==1 && digitalRead(Right_S)==1 && digitalRead(Forward_S)
==1)
{
digitalWrite(LM1, HIGH);
digitalWrite(LM2, HIGH);
digitalWrite(RM1, HIGH);
digitalWrite(RM2, HIGH);
}

else if (digitalRead(Forward_S) ==0)
{
analogWrite(6,65);
digitalWrite(LM1, HIGH);
digitalWrite(LM2, LOW);
digitalWrite(RM1, HIGH);
digitalWrite(RM2, LOW);
fire = true;
}

else if (digitalRead(Left_S) ==0)
```

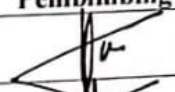





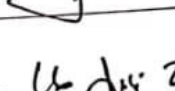
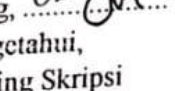


```
{  
  analogWrite(6,130);  
  digitalWrite(LM1, HIGH);  
  digitalWrite(LM2, LOW);  
  digitalWrite(RM1, LOW);  
  digitalWrite(RM2, HIGH);  
}  
  
else if (digitalRead(Right_S) ==0)  
{  
  analogWrite(6,130);  
  digitalWrite(LM1, LOW);  
  digitalWrite(LM2, HIGH);  
  digitalWrite(RM1, HIGH);  
  digitalWrite(RM2, LOW);  
}  
  
delay(300); //change this value to increase the distance  
  
while (fire == true)  
{  
  put_off_fire();  
}  
}
```



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Judul Skripsi : *FIRE FIGHTING MOBILITY* PADA PAMADAM
KEBAKARAN MENGGUNAKAN *SENSOR*
FLAME BERBASIS ARDUINO UNO

Pert.	Tanggal	Uraian	Paraf Pembimbing
1	5-04-2021	Konsultasi Judul	
2	6-04-2021	Revisi Judul	
3	15-04-2021	Konsultasi Bab I, II, III	
4	16-04-2021	Revisi Bab I, II, III	
5	29-04-2021	Konsultasi Bab IV, V	
6	3-05-2021	Revisi Bab IV, V	
7	25-06-2021	Konsultasi Project	
8	12-07-2021	Demo Project Robot	

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Mengetahui,
Pembimbing Skripsi



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