

Isi Program arduino

```
#include <Servo.h>  
  
#define ldr1 A0  
  
#define ldr2 A1  
  
#define ldr3 A2  
  
#define lm35 A3  
  
int selisihA;  
  
int selisihB;  
  
int ref=1;  
  
int data1;  
  
int data2;  
  
int data3;  
  
int suhu;  
  
int back;  
  
// include the library code:  
  
#include <LiquidCrystal.h>  
  
// initialize the library with the numbers of the interface pins  
  
LiquidCrystal lcd(12, 11, 5, 4, 3, 2);  
  
Servo myservo; // create servo object to control a servo  
  
// twelve servo objects can be created on most boards  
  
int pos = 0; // variable to store the servo position
```

```

//skala bit

// 10 bit''

// 1111111111 = 5 V = 500 derjt c

// 1024 x

// 5 / 1024 x

// 0,004 v

// 0000000011

// 0000000010

// 0000000001

// 0000000000 = 0 v = 0 drjt

void setup() {

lcd.begin(16,2);

Serial.begin(9600);

myservo.attach(9); // attaches the servo on pin 9 to the servo object

void loop() {

data3=analogRead(ldr3);

delay(15); // waits 15ms for the servo to reach the position

data2=analogRead(ldr2);

delay(15); // waits 15ms for the servo to reach the positio

data1=analogRead(ldr1);

```

```

delay(15);           // waits 15ms for the servo to reach the position

int value= analogRead(A3);

lcd.setCursor(0,1);

float millivolts = (value/1024.0)*5000;

float celsius = millivolts / 9;

celsius=celsius +9.1;

// lcd.clear();

// lcd.setCursor(0,0);

// lcd.print(celsius);

// lcd.print("C");

if(pos==0){back=0;}

if(data3<=5)

{back=1;}

if(back==1)

{

//pos=0;

pos=pos-1;

delay(10);

if(pos<=0){pos=0;}

myservo.write(pos);           // tell servo to go to position in variable 'pos'

}

```

```
lcd.setCursor(7,1);

Serial.write('s3=');

Serial.println(data3);

lcd.write('s3=');

lcd.print(data3)

lcd.print(" ");

// * * * * * * * * y 0

// * * * * * * * * y 1

// x x x x x x x x

// 0 1 2 3

lcd.setCursor(7, 0);

lcd.write('suhu=');

lcd.print(celsius);

lcd.print(" ");

selisihA=data1-data2;

selisihB=data2-data1;

if(back==0){

data1=analogRead(ldr1);

    delay(15);           // waits 15ms for the servo to reach the position

data2=analogRead(ldr2);

    delay(15);           // waits 15ms for the servo to reach the position
```

```
lcd.setCursor(0, 0);

Serial.write('s1=');

Serial.println(data1);

lcd.write('s1=');

lcd.print(data1);

lcd.print(' ');

lcd.setCursor(0, 1);

Serial.write('s2=');

Serial.println(data2);

lcd.write('s2=');

lcd.print(data2);

lcd.print(' ')

if(selisihA>ref)

{

    if(pos>=170){pos=170;}

    pos++;

    // in steps of 1 degree

    myservo.write(pos);          // tell servo to go to position in variable 'pos'

    delay(1);                    // waits 15ms for the servo to reach the position

}
```

```

if(selisihB>ref)

{

    pos--;

if(pos<=0){pos=0;}

    // in steps of 1 degree

    myservo.write(pos);          // tell servo to go to position in variable 'pos'

    delay(15);                  // waits 15ms for the servo to reach the position

}

}

/*

for (pos = 0; pos <= 180; pos += 1) { // goes from 0 degrees to 180 degrees

    // in steps of 1 degree

    myservo.write(pos);          // tell servo to go to position in variable 'pos'

    delay(15);                  // waits 15ms for the servo to reach the position

}

for (pos = 180; pos >= 0; pos -= 1) { // goes from 180 degrees to 0 degrees

    myservo.write(pos);          // tell servo to go to position in variable 'pos'

    delay(15);                  // waits 15ms for the servo to reach the position

}

*/}dags

```