

## LAMPIRAN

```
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
```