```
float x,y;
#define trigPin 12
#define echoPin 10
int ledPin= 13;
int duration, distance;

#include<Servo.h>
Servo my;

char val;

void setup() {
 Serial.begin(9600);
 pinMode(2,INPUT);
 pinMode(3,INPUT);
 my.attach(11);

 pinMode(4, OUTPUT);



 pinMode(7,OUTPUT);
 pinMode(8,INPUT);
 pinMode(9,OUTPUT);
  pinMode(10,INPUT);
  pinMode(11,OUTPUT);
```

```
 pinMode(trigPin, OUTPUT);
 pinMode(echoPin, INPUT);
 pinMode(ledPin, OUTPUT);



   pinMode(3,OUTPUT);
}



void loop() {
 x=analogRead(0);
  y=((x/1024)*5)*100;
  Serial.println(y);
  delay(500);

  if(y>44)
  {
  digitalWrite(7,1);
  }
  else
  {
  digitalWrite(7,0);
  delay(500);
```

```
  }




if(digitalRead(8)==HIGH)
 {
  digitalWrite(9,HIGH);
  }
 else
{ digitalWrite(9,LOW);}




  digitalWrite(trigPin, HIGH);
   delayMicroseconds(10);
   digitalWrite(trigPin, LOW);
   duration = pulseIn(echoPin, HIGH);
   distance = (duration/2) / 29.1;

  if (distance >= 10 || distance <= 0)
  {
  // Serial.println("no object detected");
```

```
  digitalWrite(ledPin,LOW);
  }
 else
 {
 Serial.println("object detected \n");
Serial.print("distance= ");

 Serial.print(distance);
  digitalWrite(ledPin,HIGH);
 }
if(digitalRead(2)==HIGH)
{
 my.write(0);



 }
else
{
 my.write(90);
}

 analogRead(5);
 float a = analogRead(5);
Serial.println(a);
```

```
  if (a <=200) {


   digitalWrite(4,1);
  Serial.println("LDR is DARK, LED is ON");



  }
 else {


   digitalWrite(4,0);
   Serial.println("-----");



 }




if (Serial.available())
{
  val = Serial.read();
  Serial.println(val);



  if(val == 'TV')
```

```
  digitalWrite(3,HIGH);


  else if(val == 'tv')
  digitalWrite(3,LOW);


  }



}
```