



```

#include <Servo.h>

int output1Value = 0;
int sen1Value = 0;
int sen2Value = 0;
int const gas_sensor = A1;
int const LDR = A0;
int limit = 400;

long readUltrasonicDistance(int trigerrPin, int echoPin)
{
    pinMode(trigerrPin, OUTPUT);
    digitalWrite(trigerrPin, LOW);
    delayMicroseconds(2);
    digitalWrite(trigerrPin, HIGH);
    delayMicroseconds(10);
    digitalWrite(trigerrPin, LOW);
    pinMode(echoPin, INPUT);
    pinMode(echoPin, HIGH);
}

Servo servo_7;

void setup()
{
    Serial.begin(9600);
    pinMode(A0, INPUT);
    pinMode(A1, INPUT);
    pinMode(13, OUTPUT);
    servo_7.attach(7, 500, 2500);
    pinMode(8, OUTPUT);
    pinMode(9, INPUT);
    pinMode(10, OUTPUT);
    pinMode(4, OUTPUT);
    pinMode(3, OUTPUT);
}

void loop()
{
    int vall = analogRead(LDR);
    if (vall > 500)
    {
        digitalWrite(13, LOW);
        Serial.print("Bulb on =");
        Serial.print(vall);
    }
    else
    {
        digitalWrite(13, HIGH);
        Serial.print("Bulb off =");
        Serial.
    }
}

```