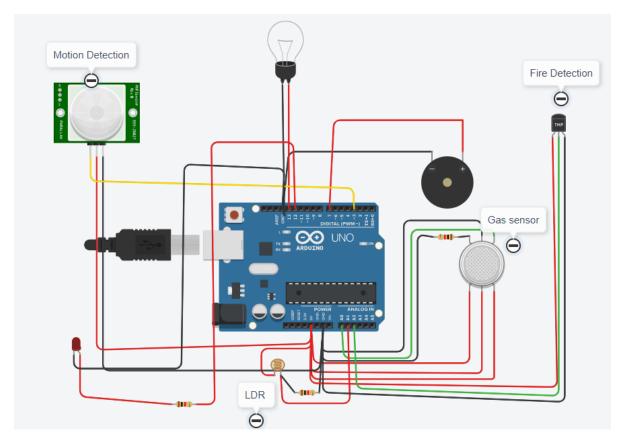
## $\underline{ASSIGNMENT-1}$

## **SMART HOME AUTOMATION**

Assignment Date	16 September 2022
Student Name	Ajay A
Student Roll Number	212219040006
Maximum Marks	2 Marks

## **CIRCUIT DIAGRAM:**



## **CODE:**

#include <Servo.h>

Servo s;

int gas\_sensor = 0;

const int bulbpin=13;

const int LDR=A1;

```
int baselineTemp = 0;
int celsius = 0;
int trig=3;
int ec=4;
void setup()
 pinMode(A0, INPUT);
 pinMode(7, OUTPUT);
 pinMode(13,OUTPUT);
 pinMode(A1,INPUT);
 pinMode(3,INPUT);
 pinMode(12,OUTPUT);
void loop()
{
 gas_sensor = analogRead(A0);
 if (gas\_sensor >= 250) {
 tone(7, 523, 1000);
 }
 delay(10);
 int Ldr_s=analogRead(LDR);
 if(Ldr_s < =500){
  digitalWrite(bulbpin,HIGH);
  Serial.println(Ldr_s);
```

```
}
 else{
   digitalWrite(bulbpin,LOW);
  Serial.println(Ldr_s);
 }
baselineTemp = 40;
 celsius = map(((analogRead(A2) - 20) * 3.04), 0, 1023, -40, 125);
 if (celsius >= baselineTemp + 30) {
  tone(7, 220, 100);
  delay(100);
 }
int motion=digitalRead(3);
 if(motion){
  digitalWrite(12,HIGH);
  delay(1000);
  digitalWrite(12,LOW);
  delay(1000);
}
```

