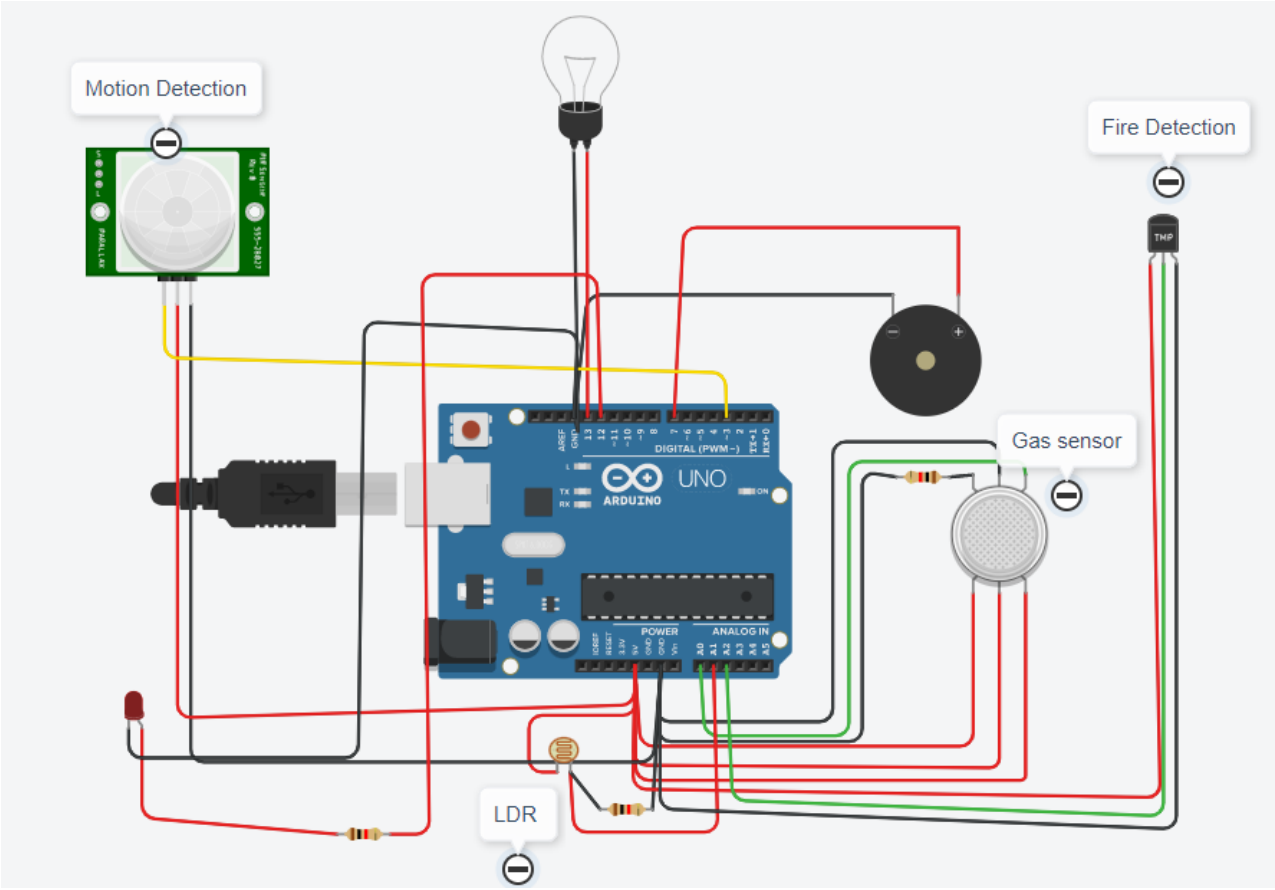
HOME AUTOMATION USING SENSORS

Sarath Vignesh A



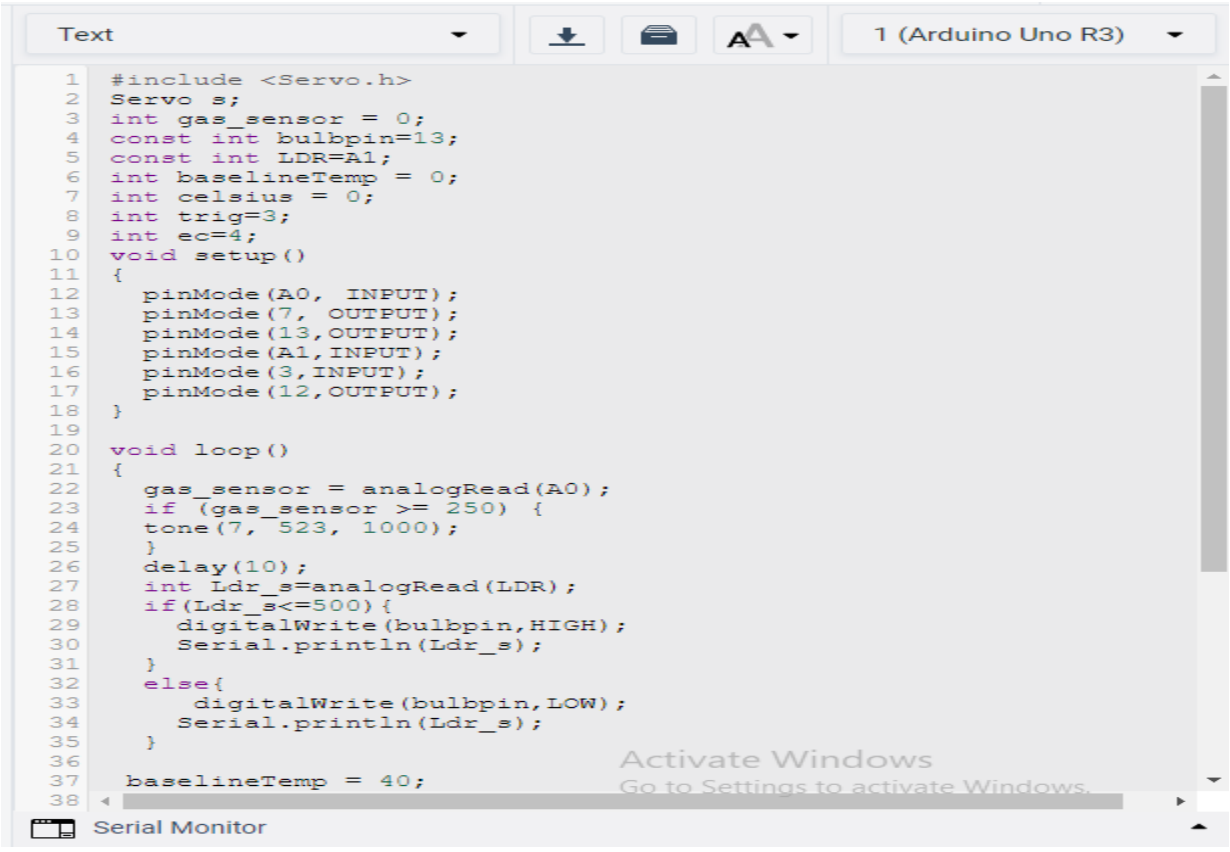
Source Code:

```
#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);
}
}
```



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void loop()
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  gas_sensor = analogRead(A0);
  if (gas_sensor >= 250) {
  tone(7, 523, 1000);
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  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,
  if (celsius >= baselineTemp + 30) {
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