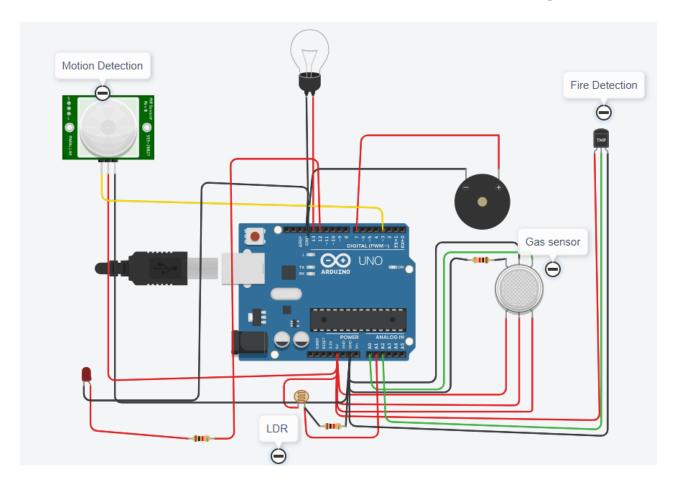
HOME AUTOMATION USING SENSORS

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);
}
```

```
Text
                                                                                                  1 (Arduino Uno R3)
        #include <Servo.h>
        Servo s;
   2 Servo s;
3 int gas_sensor = 0;
4 const int bulbpin=13;
5 const int LDR=A1;
6 int baselineTemp = 0;
7 int celsius = 0;
        int trig=3;
        int ec=4;
  10
        void setup()
          pinMode(A0, INPUT);
pinMode(7, OUTPUT);
pinMode(13,OUTPUT);
pinMode(A1,INPUT);
pinMode(3,INPUT);
  18
        void loop()
           gas_sensor = analogRead(A0);
if (gas_sensor >= 250) {
tone(7, 523, 1000);
  22
23
           delay(10);
          int Ldr_s=analogRead(LDR);
if(Ldr_s<=500){
   digitalWrite(bulbpin,HIGH);
   Serial.println(Ldr_s);</pre>
  28
  30
  31
32
                  digitalWrite(bulbpin,LOW);
                Serial.println(Ldr_s);
  35
                                                                   Activate Windows
          baselineTemp = 40;
Serial Monitor
```

```
20 void loop()
 21 {
 22
      gas sensor = analogRead(A0);
     if (gas_sensor >= 250) {
 24
      tone (7, 523, 1000);
 25
 26
     delay(10);
 27
     int Ldr s=analogRead(LDR);
 28
      if(Ldr s<=500){
        digitalWrite(bulbpin, HIGH);
 29
 30
        Serial.println(Ldr_s);
 31
 32
      else{
 33
         digitalWrite(bulbpin,LOW);
 34
        Serial.println(Ldr_s);
 35
 36
 37
    baselineTemp = 40;
 38
 39
      celsius = map(((analogRead(A2) - 20) * 3.04), 0, 1023, -40,
 40
     if (celsius >= baselineTemp + 30) {
 41
        tone (7, 220, 100);
 42
        delay(100);
 43
 44
 45 int motion=digitalRead(3);
 46
     if (motion) {
 47
        digitalWrite(12, HIGH);
 48
        delay(1000);
 49
        digitalWrite(12,LOW);
 50
       delay(1000);
```