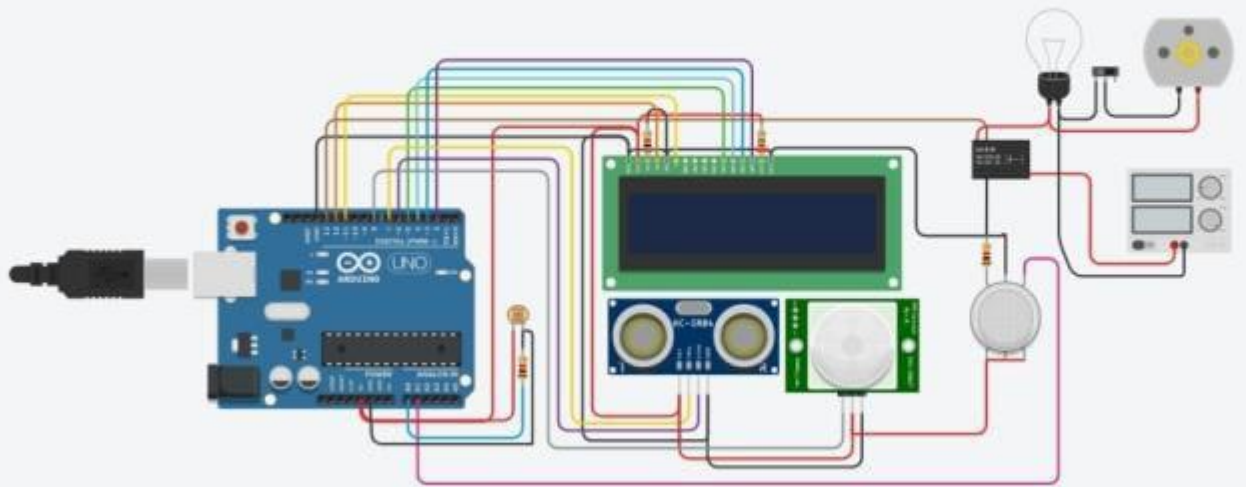


Assignment -1
Home automation using sensors

Assignment Date	19 September 2022
Student Name	Pavithra.S
Student Roll Number	41081910600302
Maximum Marks	2 Marks

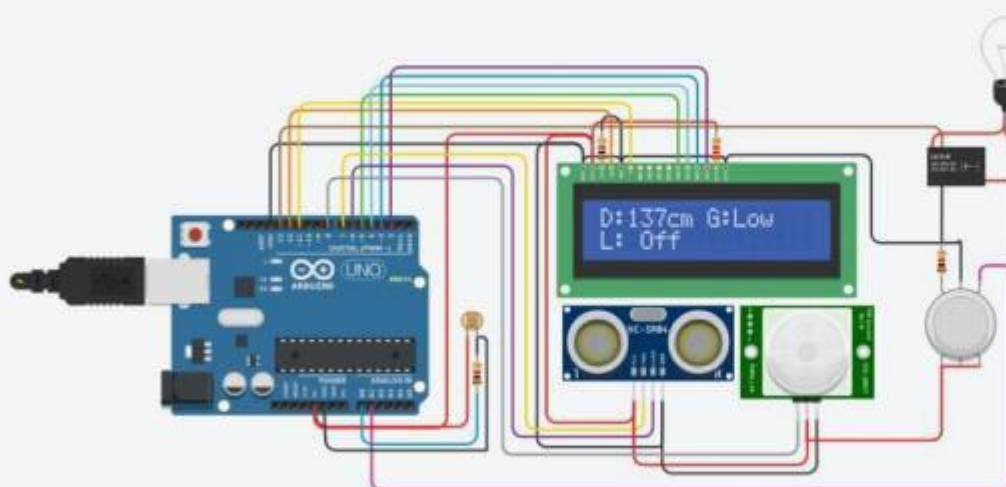
Smart Home Automation Using Sensors



Smart Home Automation Using Sensors



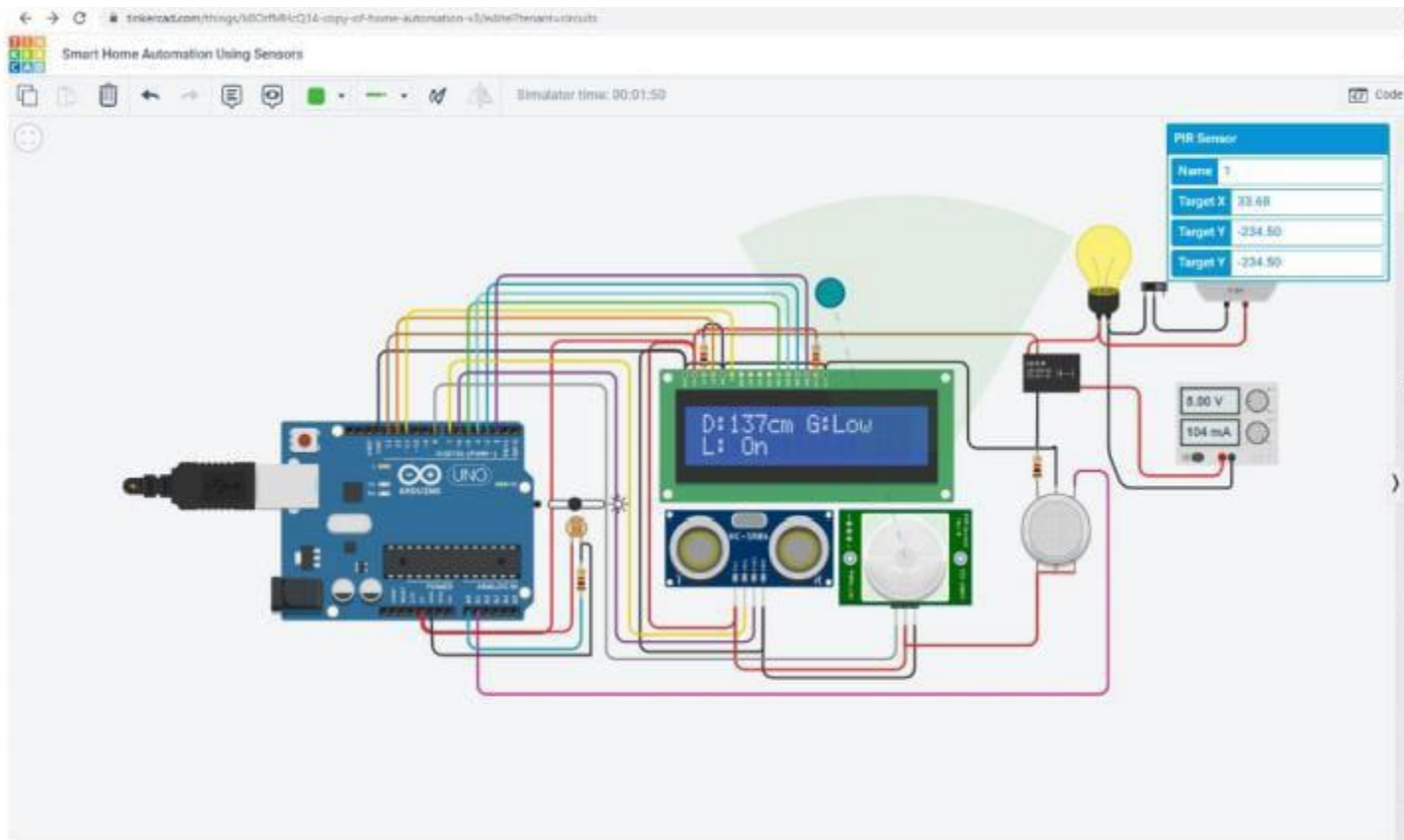
Simulator time: 00:00:22



```

1 #include <LiquidCrystal.h>
2
3 // Initialize the library with
4 LiquidCrystal lcd(11, 12, 5, 4, 15, 16);
5
6 //For ultrasonic sensor
7 int distanceThreshold = 5;
8 int cm = 0;
9 int inches = 0;
10
11 //For Relay Control
12 int relay = 13;
13 int inputPin = 0;
14 int val = 0;
15 int resultSensorLCD;
16 int sensorLCD = A0;
17
18 //For Gas sensor
19 int const PMS_PIN = A1;
20
21
22 long readUltrasonicDistance(int t
23 {
24   pinMode(triggerPin, OUTPUT); //
25   digitalWrite(triggerPin, LOW);
26   delayMicroseconds(2);
27   // Sets the trigger pin to HIGH
28   digitalWrite(triggerPin, HIGH);
29   delayMicroseconds(10);
30   digitalWrite(triggerPin, LOW);
31   pinMode(echoPin, INPUT);
32   // Reads the echo pin, and returns
33   return pulseIn(echoPin, HIGH);
34 }
35
36 void setup() {
37   // set up the LCD's number of c
38   lcd.begin(16, 2);
39
40   pinMode(relay, OUTPUT);
41   pinMode(inputPin, INPUT);
42   pinMode(sensorLCD, INPUT);
43   Serial.begin(9600);
44 }
45
46 void loop() {
47   // set threshold distance to an
48   distanceThreshold = 5;
49   //
50   Serial Monitor

```



Smart Home Automation Using Sensors

All changes

Simulator time: 00:07:00

