

Gas Leakage monitoring & Alerting system for Industries

Assignment-1

Code :

```
void setup(){
  Serial.begin(9600);
  pinMode(2,INPUT);
  pinMode(12,OUTPUT);
}

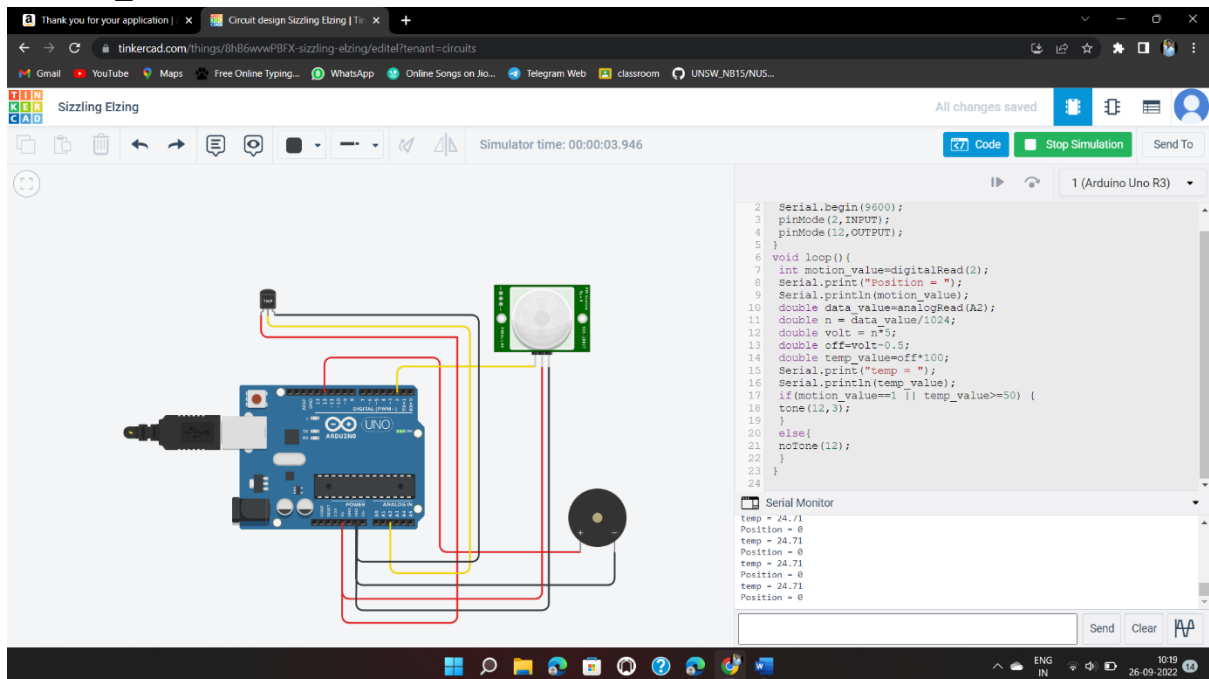
void loop(){
  int motion_value=digitalRead(2);
  Serial.print("Position = ");
  Serial.println(motion_value);
  double data_value=analogRead(A2);
  double n = data_value/1024;
  double volt = n*5;
  double off=volt-0.5;
  double temp_value=off*100;
  Serial.print("temp = ");
  Serial.println(temp_value);
  if(motion_value==1 || temp_value>=50) {
    tone(12,3);
  }
  else{
```

noTone(12);

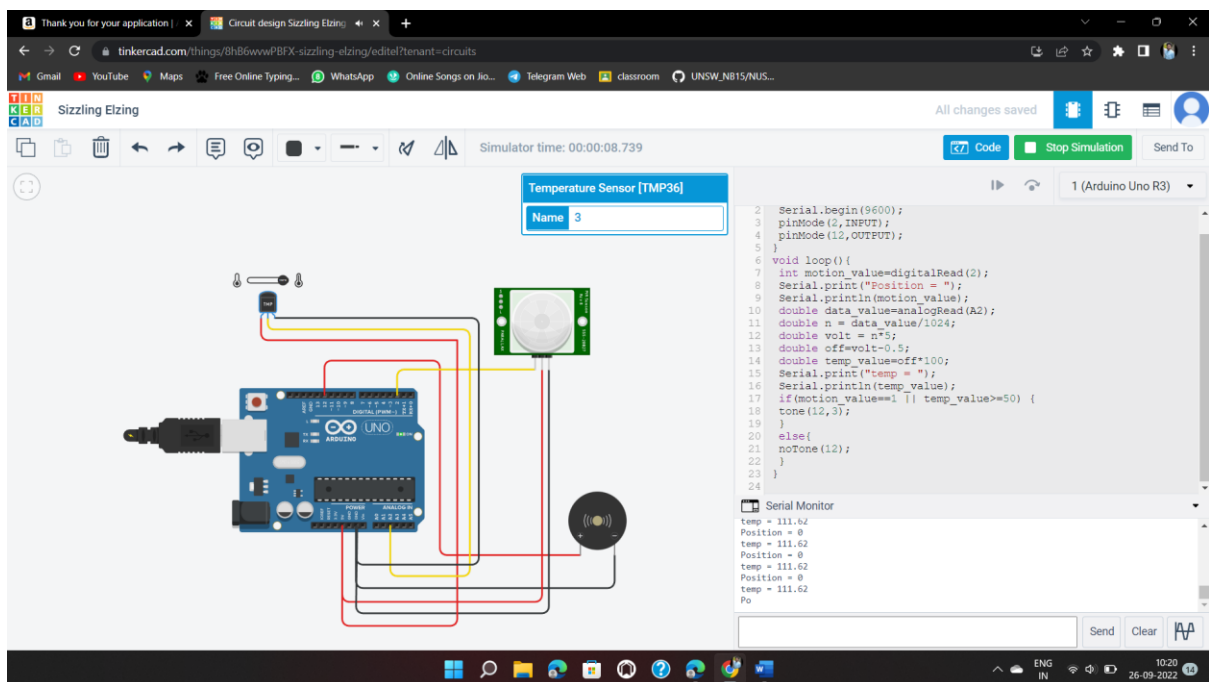
}

}

Output :



Working of sensors :



Thank you for your application | x Circuit design Sizzling Elzing | x +

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Sizzling Elzing All changes saved

Simulator time: 00:00:13.170

Code Stop Simulation Send To

1 (Arduino Uno R3)

```
1 Serial.begin(9600);
2 pinMode(2,INPUT);
3 pinMode(12,OUTPUT);
4
5
6 void loop() {
7   int motion_value=digitalRead(2);
8   Serial.print("Position = ");
9   Serial.println(motion_value);
10  double data_value=analogRead(A2);
11  double n = data_value/1024;
12  double volt = n*5;
13  double offvoltage=0.5;
14  double temp_value=off*100;
15  Serial.print("temp = ");
16  Serial.println(temp_value);
17  if(motion_value==1 || temp_value>=50) {
18    tone(12,3);
19  }
20  else{
21    noTone(12);
22  }
23 }
24
```

Serial Monitor

temp = -40.23
Position = 1
temp = -40.23
Position = 1
temp = -40.23
Position = 1
temp = -40.23
Po

Send Clear

ENG IN 10:20 26-09-2022