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{
```
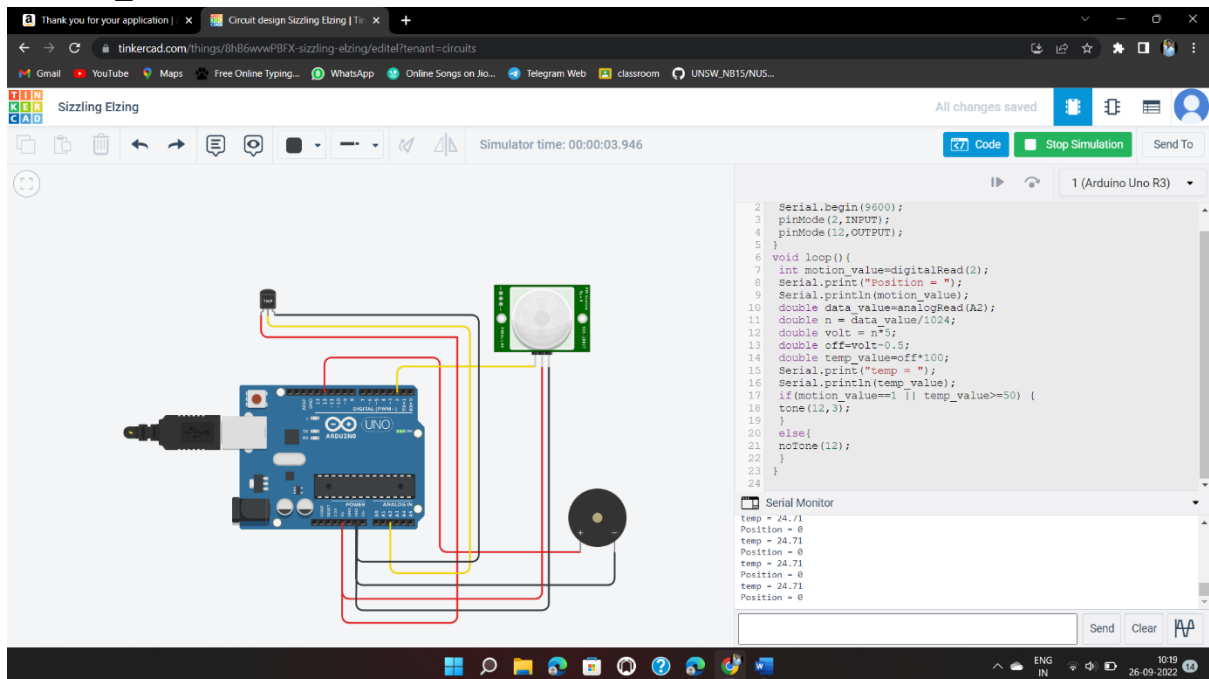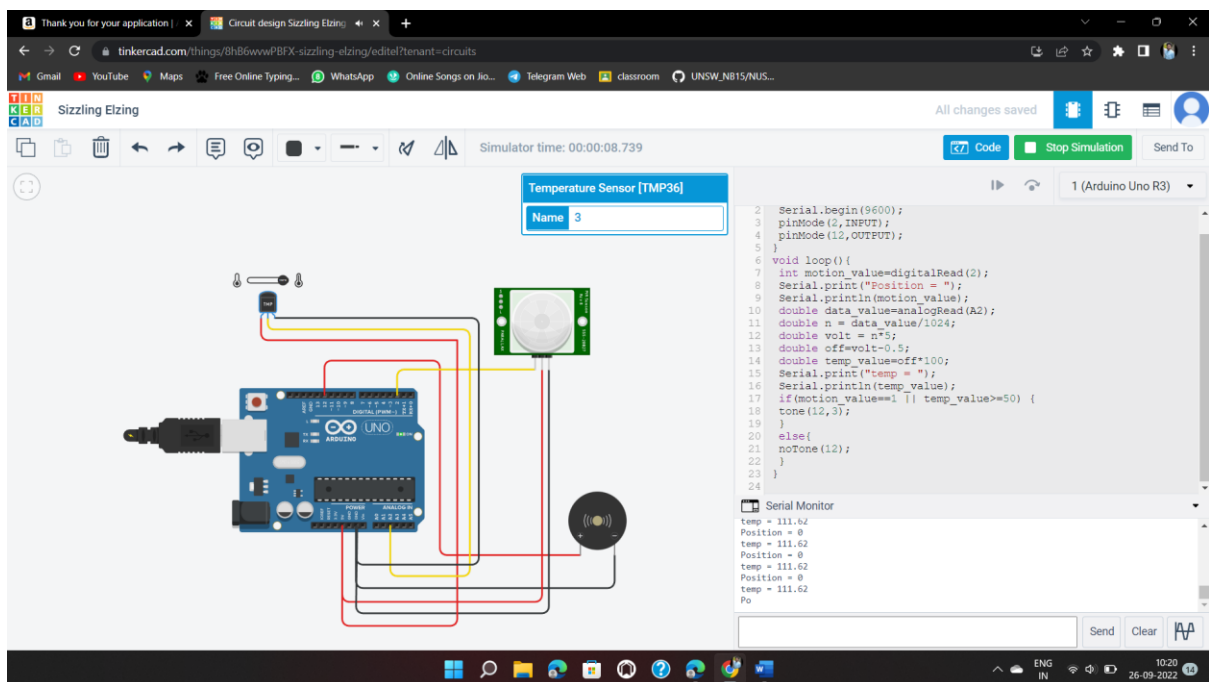
noTone(12);

 }

}

Output :

Working of sensors :

```
2    Serial.begin(9600);
3    pinMode(2,INPUT);
4    pinMode(12,OUTPUT);
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 off=volt-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
```