Gas Leakage monitoring & Alerting system for Industries
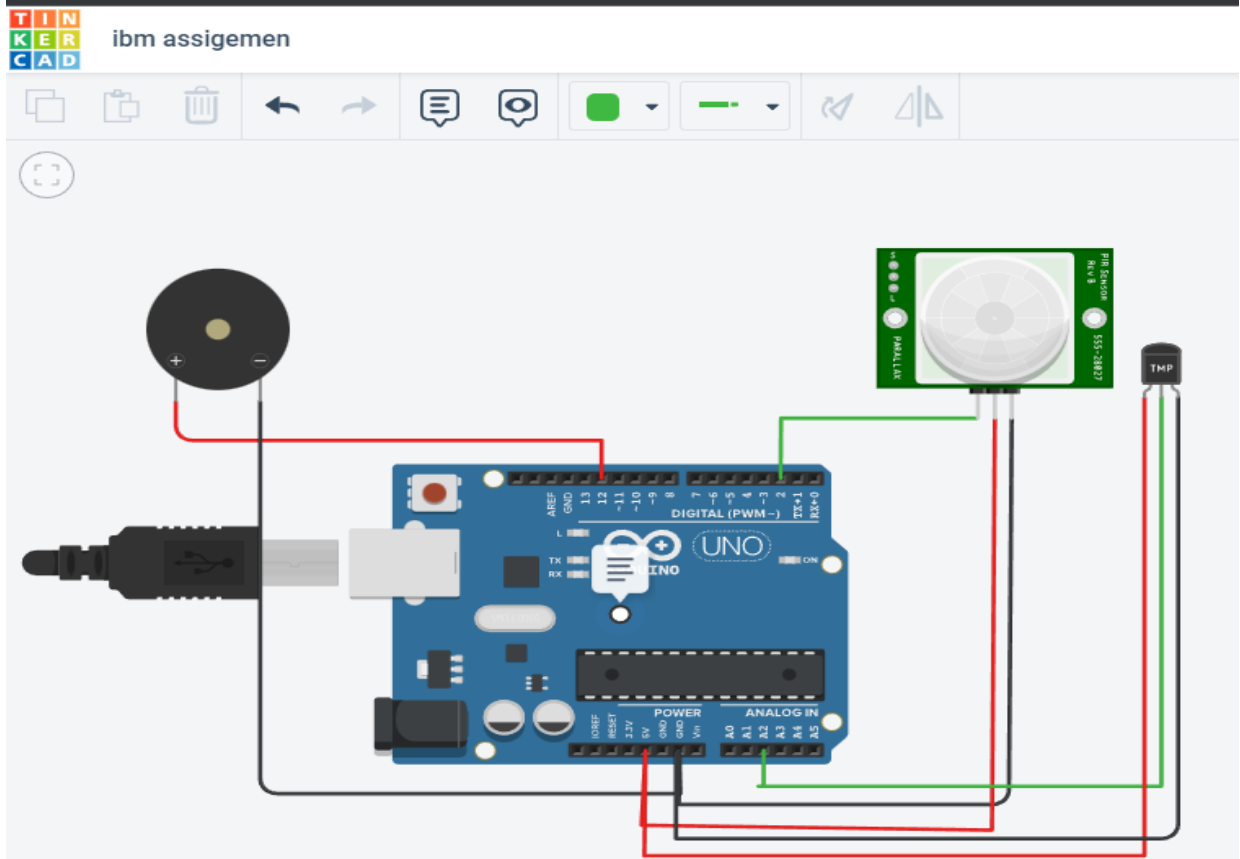
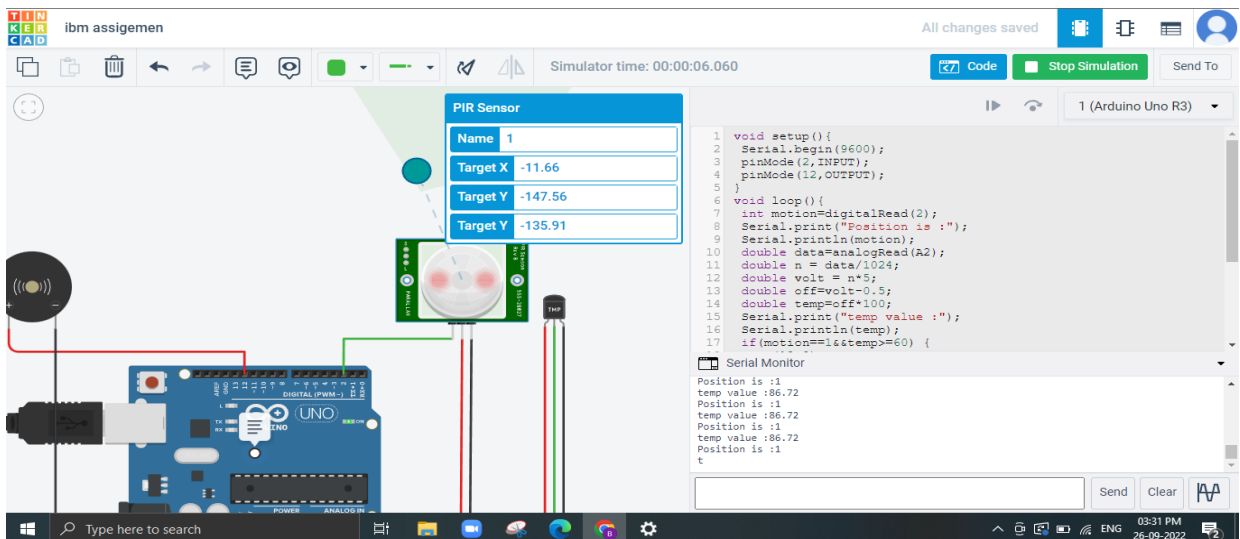## Assignment-1

CODE:

```
void setup(){
  Serial.begin(9600);
  pinMode(2,INPUT);
  pinMode(12,OUTPUT);
}
void loop(){
  int  motion=digitalRead(2);
  Serial.print("Position is :");
  Serial.println(motion);
  double data=analogRead(A2);
  double n = data/1024;
  double volt = n*5;
  double off=volt-0.5;
  double temp=off*100;
  Serial.print("temp value :");
  Serial.println(temp);
  if(motion==1&&temp>=60)  {
     tone(12,3);
  }
  else if(temp>=60) {
     tone(12,4);
  }
  else if(motion==1) {
     tone(12,5);
  }
```

```
  else{

    noTone(12);

  }

}
```

OUTPUT:

Working of PIR sensor

Working of both PIR and temperature sensor with piezo alarm