# **IBM ASSIGNMENT-I**

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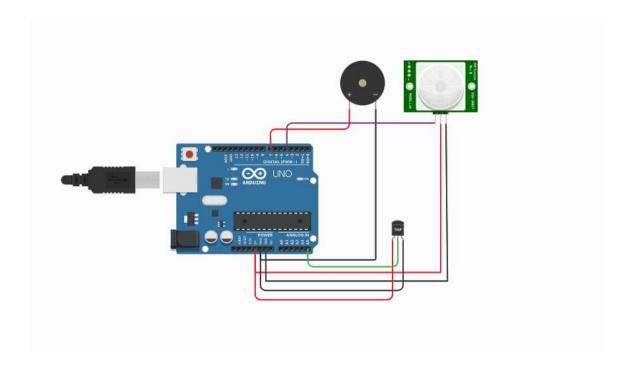
**ROLL NO: 212919106019** 

Create a circuit with Piezo alarm, PIR Sensor, TMP Sensor with below functionalities:

1.Alarm should sound in one manner if temp is above 60C

2.Alarm should sound with another frequency if motion is detected in PIR Sensor.

## **CIRCUIT LAYOUT:**



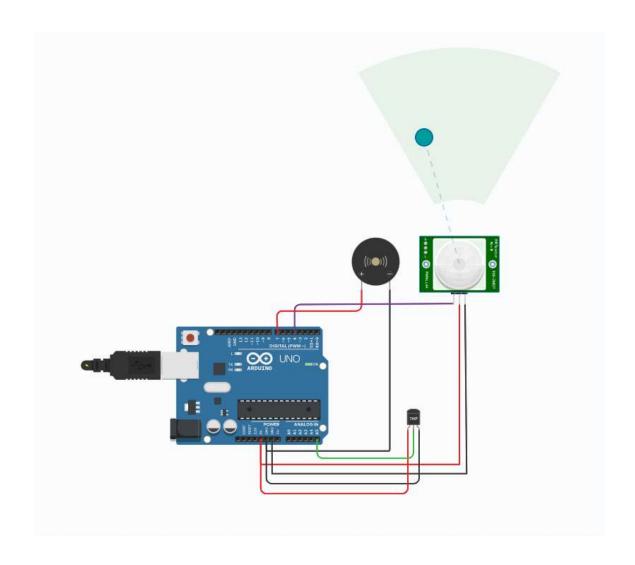
#### CODE:

```
// C++ code
//
void setup()
 Serial.begin (9600);
 pinMode(4, INPUT);
 pinMode(7,OUTPUT);
 pinMode(A5,INPUT);
void loop()
 int motion = digitalRead(4);
 if (motion==1){
  Serial.println("Motion detected");
  tone (7,200);
  delay(350);
 else{
  Serial.println("No Motion");
  noTone(7);
 double data=analogRead(A5);
 double n=data/1024;
 double volt=n*5;
 double off=volt-0.5;
 double temperature=off*100;
```

```
if (temperature>59.99){
    Serial.print("Temperature data:");
    Serial.println(temperature);
    tone(7,1000);
    delay(350);
}
    else
        Serial.print("Temperature data: ");
        Serial.println(temperature);
        noTone(7);
    }
}
```

# **OUTPUT:**

## **PASSIVE INFRARED SENSOR:**



# TEMPERTURE SENSOR (AT 60°C):

