## **IBM ASSIGNMENT- I**

TEAM ID: PNT2022TMID38196

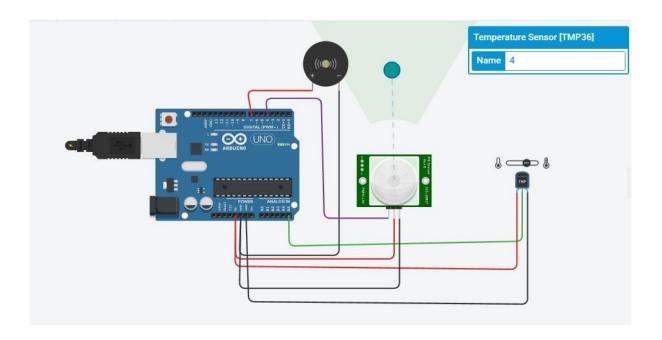
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Create a circuit with Piezo alarm, PIR Sensor, TMP Sensor with below functionalities:

- 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:**

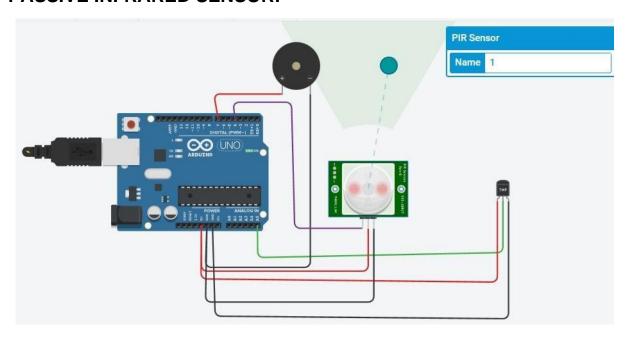


#### CODE:

```
// 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):

