# **IBM ASSIGNMENT-I**

TEAM ID : PNT2022TMID2663

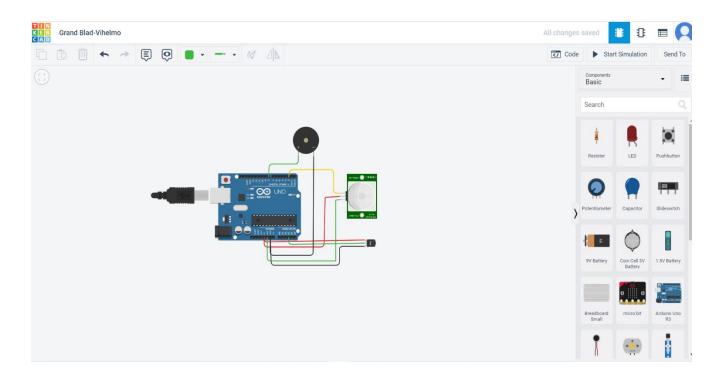
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Create a circuit with Piezo alarm, PIR Sensor, TMP Sensor with below functionalities:

- 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:**

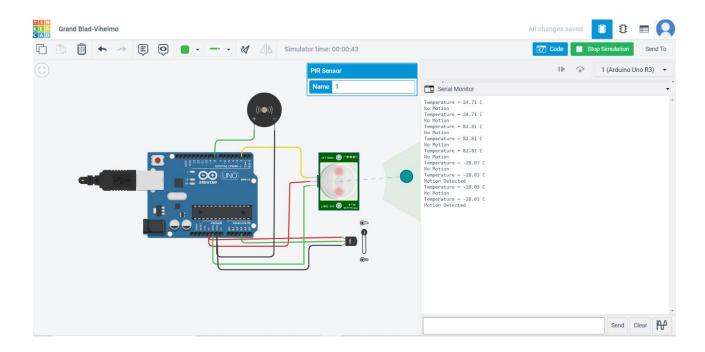


### CODE:

```
void setup()
pinMode(A3, INPUT);
pinMode(8, OUTPUT);
pinMode(2,INPUT);
Serial.begin(9600);
void loop()
{
float temp;
temp=analogRead(A3);
temp = ((temp*5)/1024);
temp = (temp-0.5)*100;
Serial.print("Temperature = ");
Serial.print(temp);
Serial.println(" C ");
int motion=digitalRead(2);
 if (motion==1){
  Serial.println("Motion Detected");
  tone(8,15000);
  delay(3000);
 }
 else{
  Serial.println("No Motion");
  noTone(8);
 }
if (temp<59)
 noTone(8);
if (temp > = 60)
tone(8,1000);
delay(5000);
}
```

### **OUTPUT:**

#### **PASSIVE INFRARED SENSOR:**



## TEMPERTURE SENSOR (AT 60°C):

