IBM ASSIGNMENT- I

TEAM ID:

PNT2022TMID38188

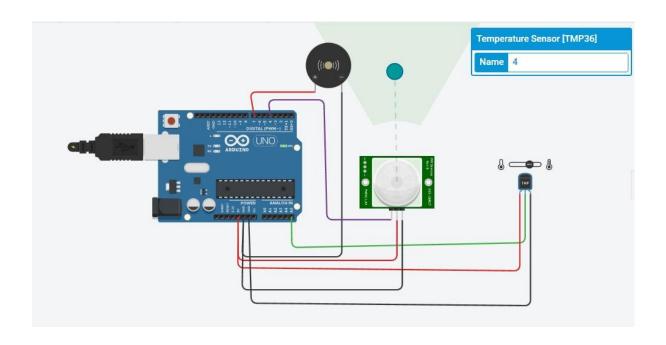
NAME: SHARMILA B

ROLL NO: 411919104011

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:



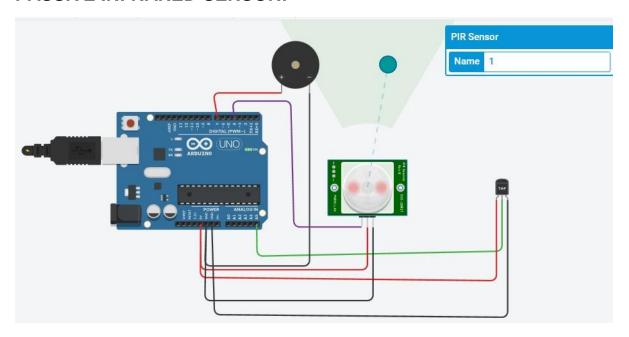
CODE:

```
// 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):

