IBM ASSIGNMENT- I

TEAM ID : PNT2022TMID2648

NAME: MARTIN ROHAN.C

ROLL NO : 212919106054

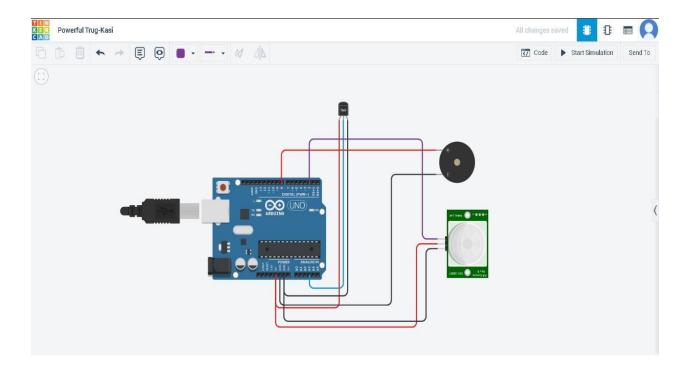
Functionalities:

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.

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

CIRCUIT LAYOUT:

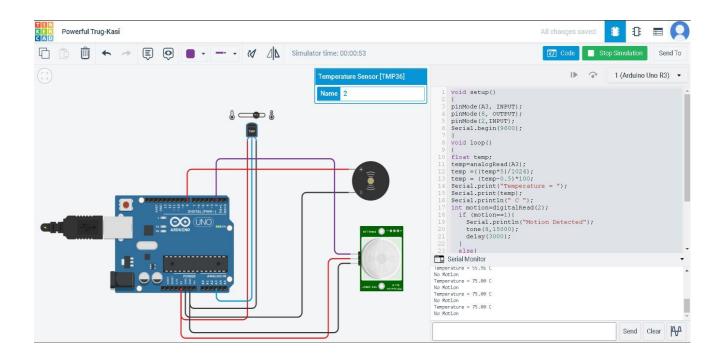


CODE:

```
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):

