**IBM ASSIGNMENT- I**

**TEAM ID :PNT2022TMID26639**

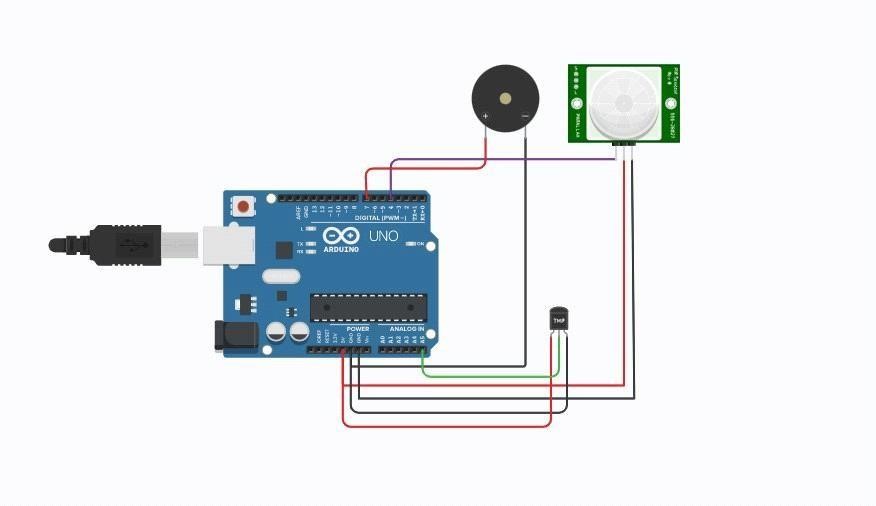
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Create a circuit with Piezo alarm, PIR Sensor, TMP Sensor with below functionalities:

* Alarm should sound in one manner if temp is above 60C
* 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);

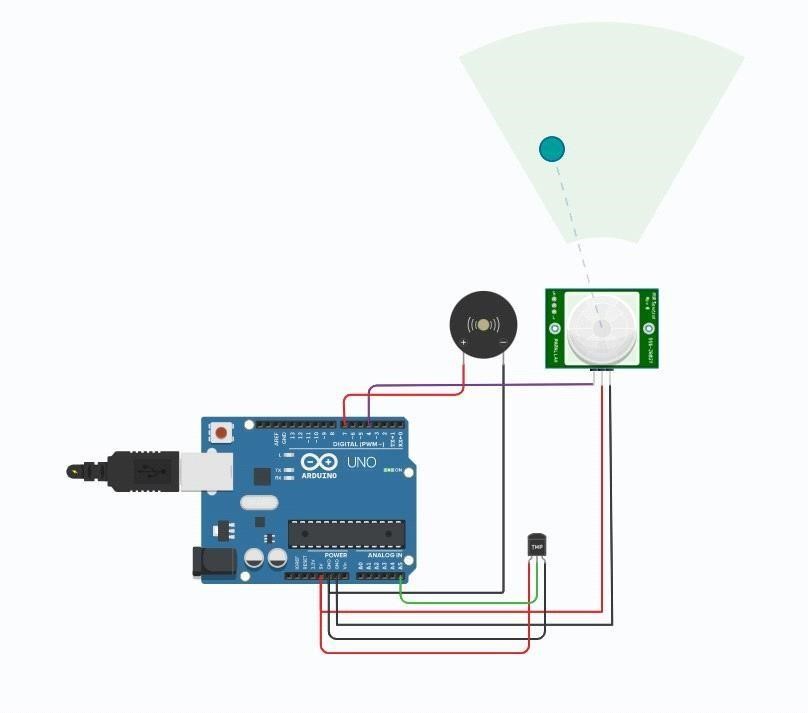
noTone(7);

}

}

**OUTPUT:**

**PASSIVE INFRARED SENSOR:**



**TEMPERTURE SENSOR (AT 60°C):**

