

# **IBM ASSIGNMENT- I**

**TEAM ID :PNT2022TMID26623**

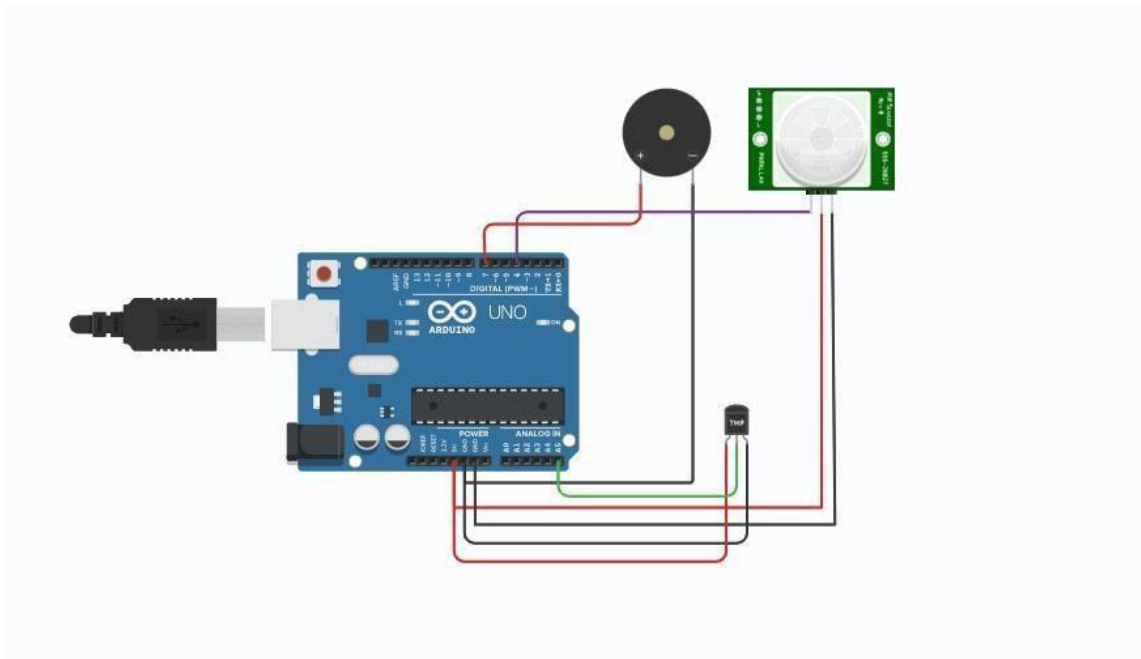
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Create a circuit with Piezo alarm, PIR Sensor, TMP Sensor with below functionalities:

- 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);
}

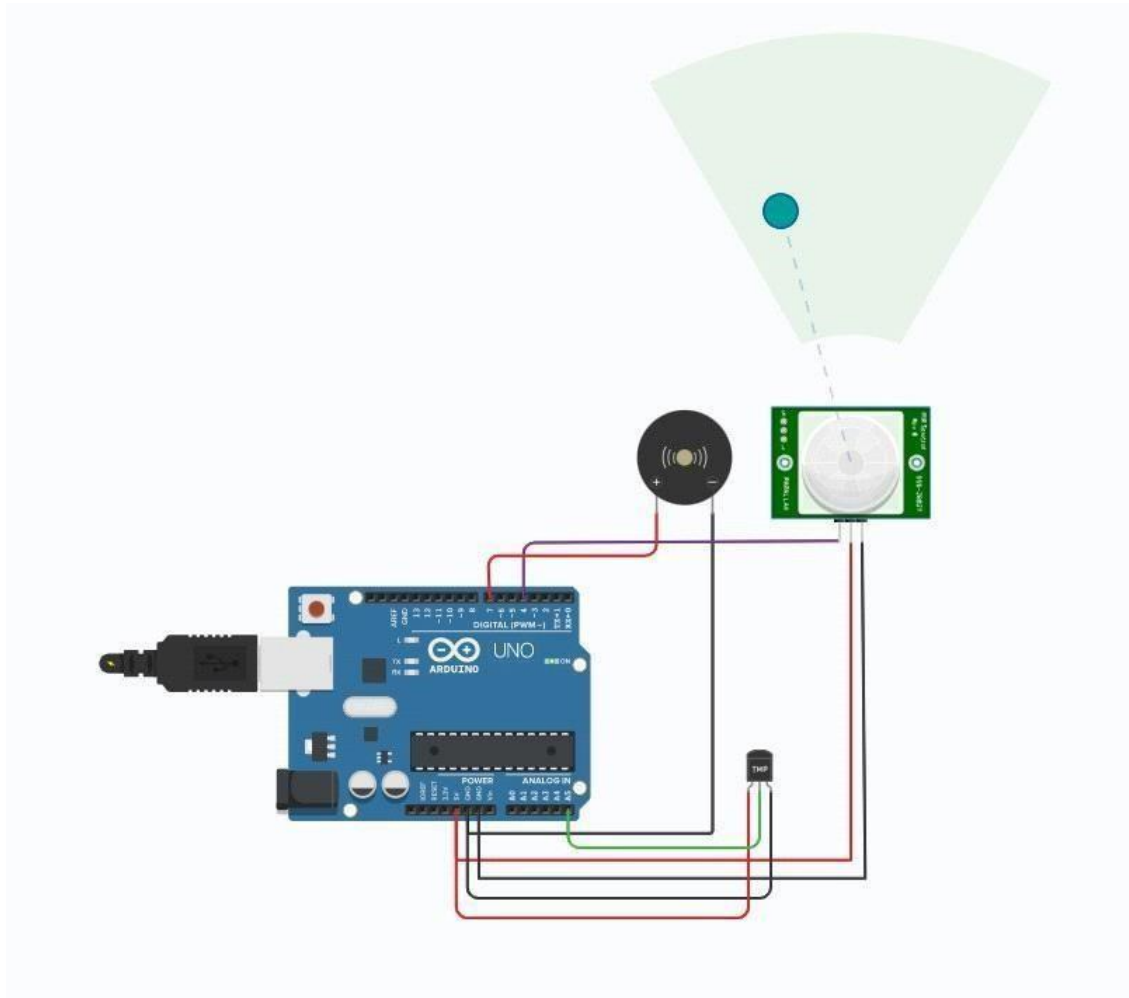
void loop()
{
  int motion = digitalRead(4); if
  (motion==1){
    Serial.println("Motion detected");
    tone (7,200); delay(350);
  }
  else{
    Serial.println("No Motion");
    noTone(7);
  }
}

{
  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):**

