ASSIGNMENT - 1

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**Create circuit with Piezo alarm, PIR sensor, tmp sensor with below functionalities:**

1. Alarm should sound in one manner if temp is above 60 degree Celsius.
2. Alarm should sound with another frequency if motion is detected in PIR sensor.

Diagram, schematic

Description automatically generated

**CODING:**

void setup()

{

Serial.begin(9600); pinMode(2,INPUT); pinMode(12,OUTPUT);

}

void loop()

{

int motion=digitalRead(2); if(motion==1){ Serial.println("Motion detected"); tone(12,10);

delay(1000); noTone(12); delay(1000);

}

else{

Serial.println("No motion");

}

double data=analogRead(A2); double n=data/1024;

double volt=n\*5; double off=volt-0.5;

double temperature=off\*100; Serial.print("Temperature data: "); Serial.println(temperature); if(temperature>60.00)

{

tone(12,100); delay(500); noTone(12); delay(500);

}

}

OUTPUTS

A picture containing text, electronics, screenshot

Description automatically generated

Diagram

Description automatically generated

SIMULATION LINK :

<https://drive.google.com/file/d/1-vH1f0qdxVmulFWsWlF1I7JGgA4dsRet/view?usp=sharing>