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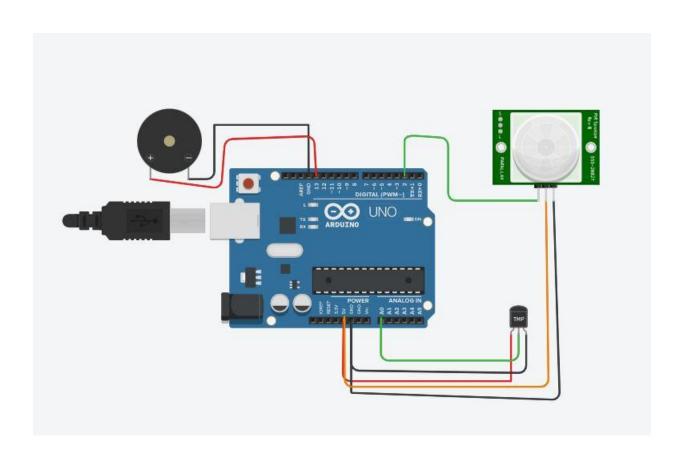
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### **Assignment-I**

To create with piezo alarm, PIR sensor, temp sensor with below functionalities;

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

#### **Circuit connection:**



#### **Code:**

```
void setup()
{
 Serial.begin(9600);
 pinMode(A0,INPUT);
 pinMode(2,INPUT);
 pinMode(13,OUTPUT);
}
void loop()
{
 double data=analogRead(A0);
 double n=(data/1024);
 double volt=n*5;
 double off=volt-0.5;
 double temp=off*100;
 Serial.print("temperature= ");
 Serial.println(temp);
 int pir=digitalRead(2);
 Serial.print("motion= ");
 Serial.println("Object decected");
 if(temp>60){
```

```
tone(13,100);
delay(5000);
noTone(13);
}
if(pir==1){
  tone(13,200);
  delay(5000);
  noTone(13);
}
```

## **Output:**

```
Serial Monitor

temperature= 24.71
motion= Object decected
temperature= 77.93
motion= Object decected
```

# **Working Circuit Design:**

