

ASSIGNMENT 1

Create a circuit with piezo alarm, PIR sensor, Temperature sensor consisting following features

- 1. Alarm when temperature is above 60 degree celcius, and**
- 2. Alarm when motion detected using Passive Infrared sensor**

PROGRAM:

```
// C++ code
int pir, buzz;
float temp;
void setup()
{
    pir = 3;
    buzz = 12;
    pinMode(pir, INPUT);
    pinMode(buzz, OUTPUT);
    Serial.begin(9600);
}

void loop()
{
    //Motion Monitoring
    int motion = digitalRead(pir);
    if(motion == 1)
    {
        tone(buzz, 50);
        Serial.println("Motion Status: Detected");
        delay(50);
    }
    else
    {
        noTone(buzz);
        Serial.println("Motion Status: Not Detected");
    }

    //Temperature Measurement
    float data = analogRead(A4);
    float temp = (((data/1024.0)*5)*100);
```

OUTPUT :



