

ASSIGNMENT-1

Using PIR sensor and sensor and temp36(Temperature sensor) Piezo Alarm, please create a circuit with Arduino uno with below functionalities:

- 1.Alarm should give one sound when there is a motion near PIR sensor
- 2.Alam should sound with different sound when temperature is above 60 degrees

Source Code:

```
void setup()
{
    Serial.begin(9600);
    pinMode(12,INPUT);
    pinMode(13,OUTPUT);
}

void loop()
{
    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)
    {
        tone(13,250);
        delay(500);
        noTone(12);
    }
    int motion=digitalRead(12);
    if(motion==1)
    {
        Serial.println("Motion detected");
```

```

tone(13,100);

delay(500);

noTone(12);

}

}

```

