

Arduino Interfacing with Temp sensor, PIR sensor and Piezo buzzer

Project code:

```
void setup()
{
    Serial.begin(9600);
    pinMode(2, INPUT);
    pinMode(12, OUTPUT);
}

void loop()
{
    int motion=digitalRead(2);
    if(motion==1)
    {
        Serial.println("Motion is Detected !");
        tone(12,10);
        delay(1000);
        noTone(12);
        delay(3000);
    }
    else
    {
        Serial.println("No Motion!!!");
        delay(1000);
    }

    double data=analogRead(A2);
    double n=data/1024;
    double voltage=n*5;
    double offsetvol=voltage-0.5;
    double temp=offsetvol*100;
```

```

if(temp>60)
{
    Serial.println("Temperature higher than 60 degrees !!");
    Serial.println(temp);
    tone(12,10);
    delay(1000);
    noTone(12);
    delay(3000);
}
else
{
    Serial.println("Temperature lesser than 60 degrees !!");
    Serial.println(temp);
    delay(1000);
}
}

```

OUTPUT:

