

```
void setup()
{
    Serial.begin(115200);
    pinMode(13, OUTPUT);
}

void loop()
{
    int AN0 = analogRead(A0);
    float V = AN0*5.0/1023;
    float R = 5.0*10000/V - 10000;
    float lux = 12518931*pow(R, -
1.405);
    Serial.print(V);
    Serial.print(",");
    Serial.print(R);
    Serial.print(",");
    Serial.println(lux);
    delay(200);
}
```

```
if(lux < 25.0);  
    digitalWrite(13,0);  
if(lux < 10.0);  
    digitalWrite(13,1);  
}
```