

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

}

void loop()
{
    int AN0 = analogRead(A0);
    float V = 5.0*AN0/1023;
    float R = V*10000.0/(5.0-V);
    float Lux = 12518931*pow(R, -1.4);
    Serial.print(AN0);
    Serial.print(",");
    Serial.print(V);
    Serial.print(",");
    Serial.print(R);
    Serial.print(",");
    Serial.println(Lux);
    if(Lux > 50)
        digitalWrite(13, 0);
    if(Lux < 20)
        digitalWrite(13, 1);
    delay(200);

}
```