

```
void setup() {  
    Serial.begin(115200);  
    pinMode(13,OUTPUT);  
  
}  
  
void loop() {  
    int AN0 = analogRead(A0);  
    float V = 5.0*AN0/1023.0;  
    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);  
  
}
```