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//=====Week_6_LDR  
//=====By_AA_Crazy_10/8/2025
```

```
void setup()  
{  
  Serial.begin(115200);  
  pinMode(13,OUTPUT);  
  //pinMode(LED_BUILTIN, OUTPUT);  
}  
  
void loop()  
{  
  int AN0 = analogRead(A0);    //data 0-1023  
  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 < 10)  
    digitalWrite(13,1);  
  
  delay(800);  
}
```