

Automatic switch for day & night based on photo resistor

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```
const float sensorPin = A0;

float lightCal;
float lightVal;

void setup()
{
  Serial.begin(9600);
  // We'll set up the LED pin to be an output.
  pinMode(D0, OUTPUT);
  lightCal = analogRead(sensorPin);
}

void loop()
{
  //Take a reading using analogRead() on sensor pin and store it in lightVal
  lightVal = analogRead(sensorPin);
  Serial.print("LightVal = ");
  Serial.println(lightVal);
  Serial.print("LightCal = ");
  Serial.println(lightCal);
  delay(1000);

  if (lightCal + 10 < lightVal)
  {
    digitalWrite(D0, HIGH);
  }

  else
  {
    digitalWrite(D0, LOW);
  }
}
```

