INTERNET OF THINGS

1.7

PHOTORESISTOR SENSOR
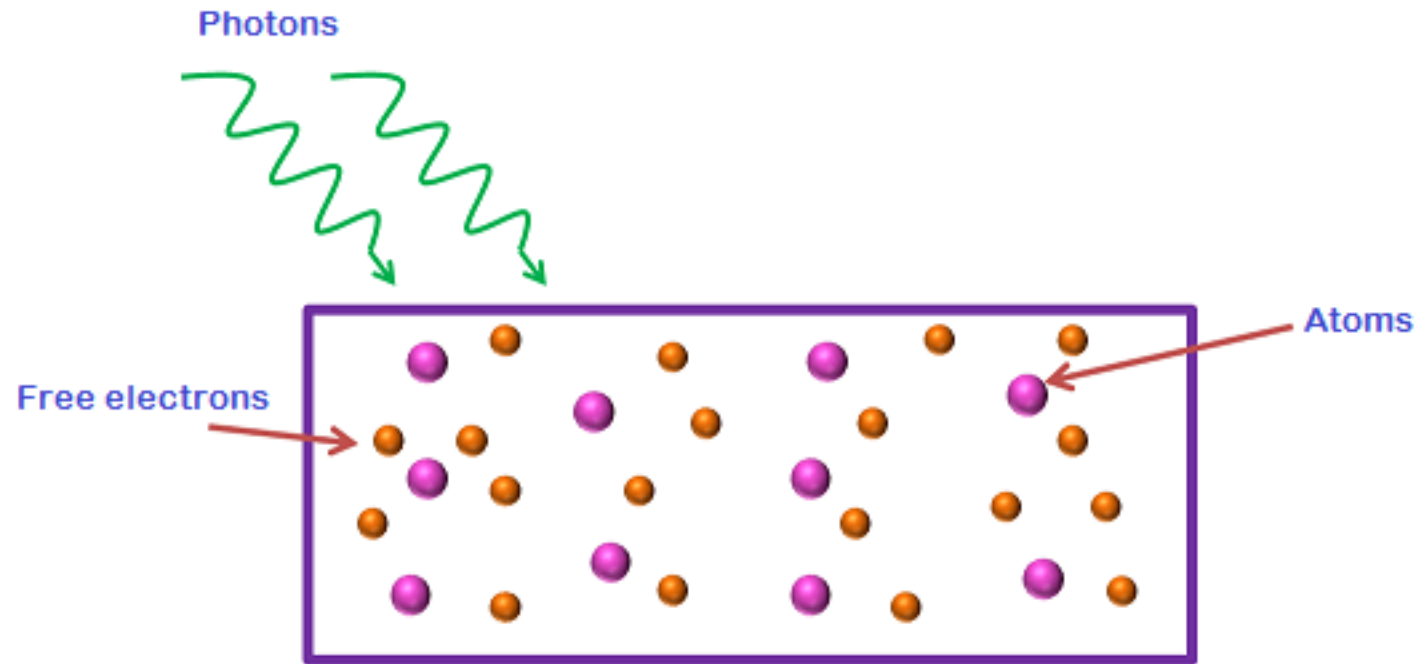
Photoresistor
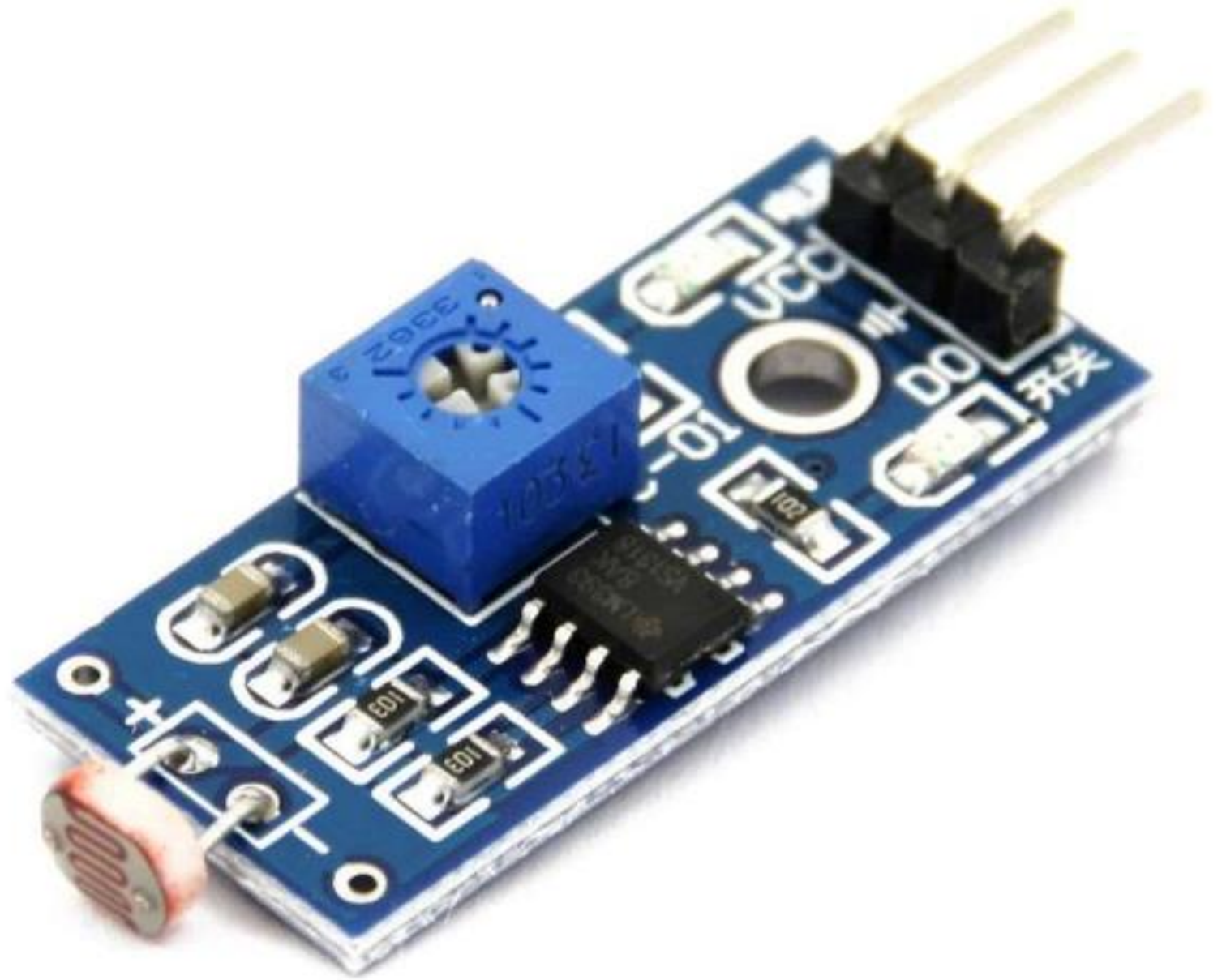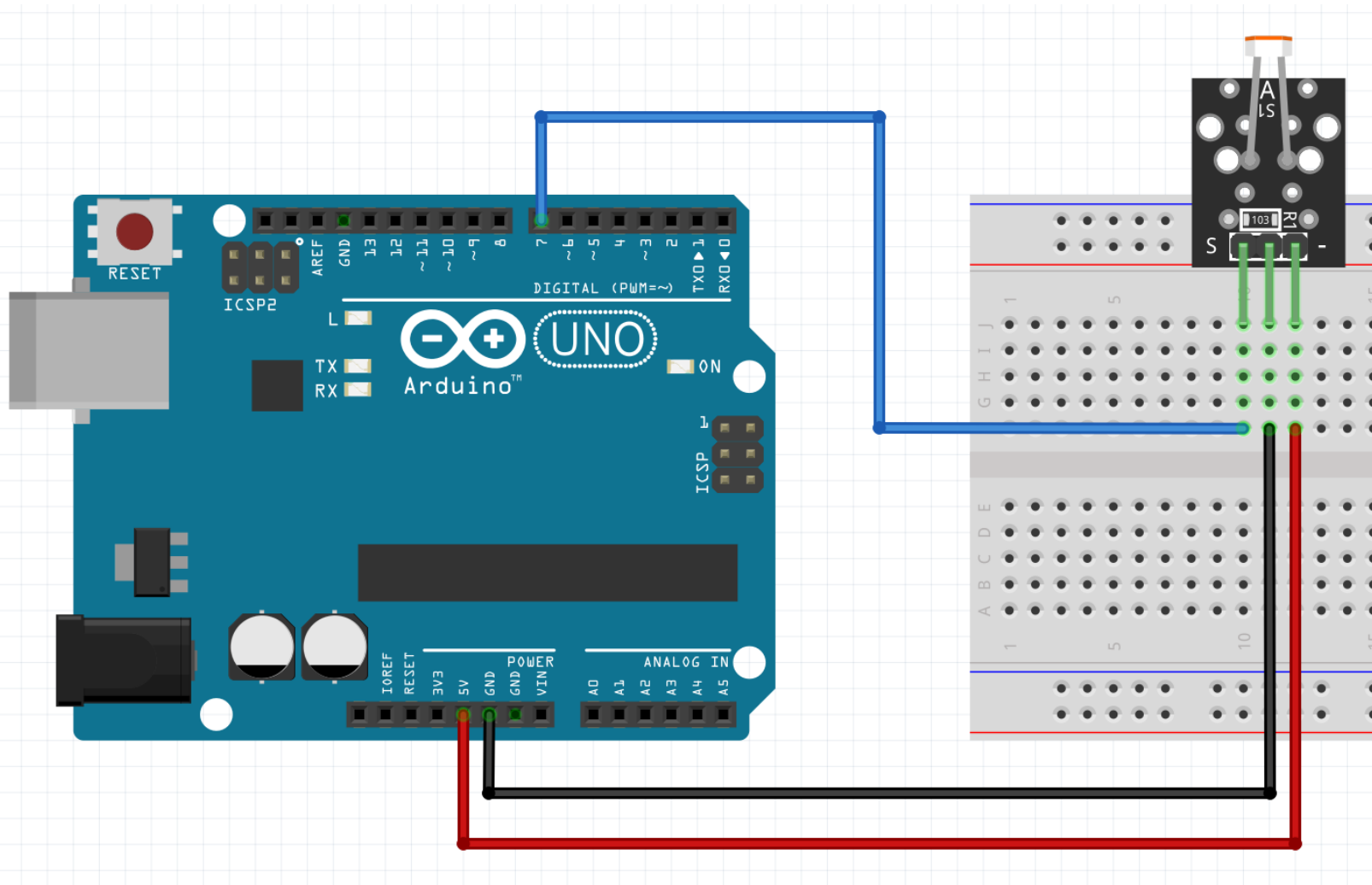
How photoresistor work?

Light Dependant Resistor
(LDR)

Op-amp LM393

LED ngõ ra digital

Biến trở

LED báo nguồn

A0

D0

GND
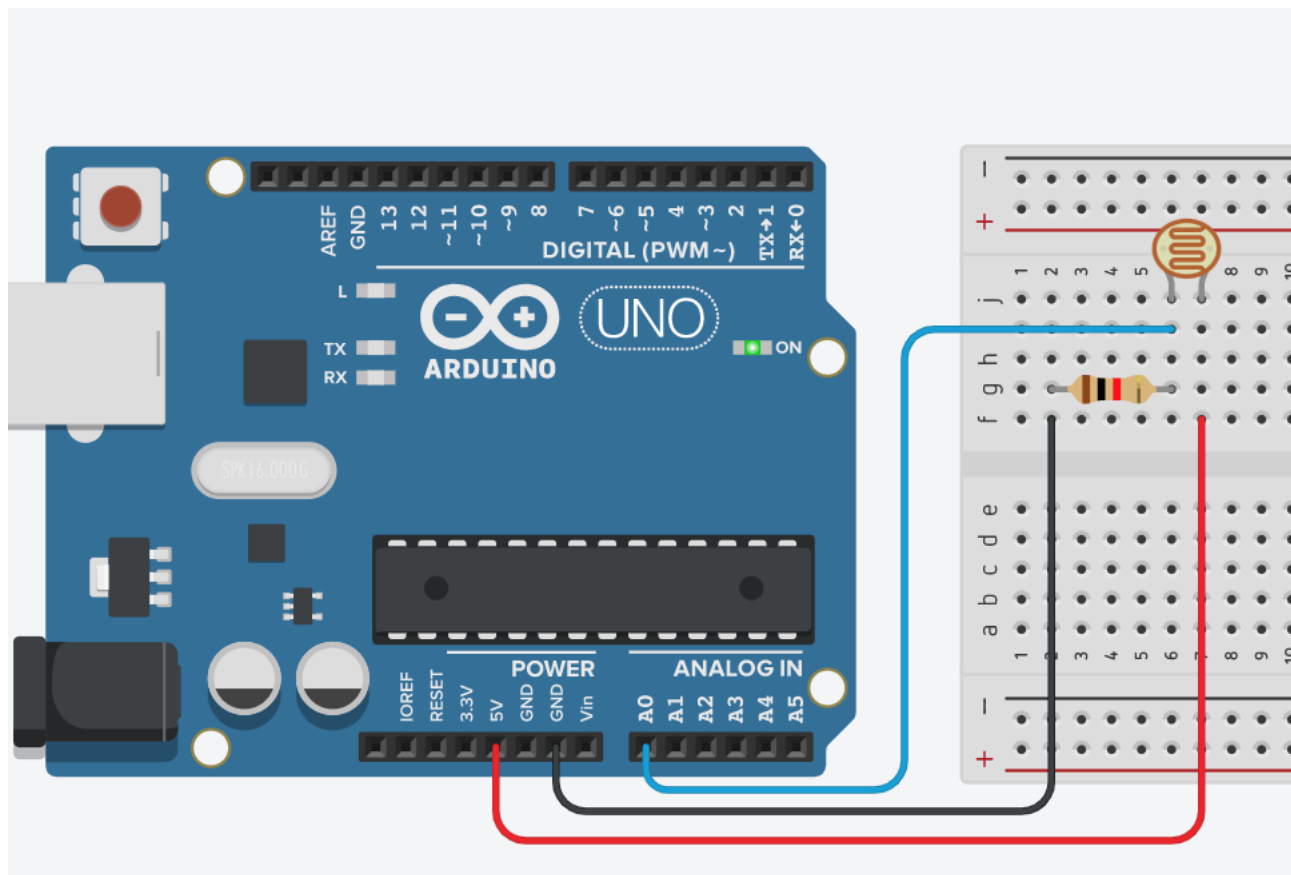
VCC

Photoresister	Arduino
VCC	5v
GND	GND
DO	7
AO	

```
int light_pin = 7;

void setup(){
  pinMode(light_pin, INPUT);
  Serial.begin(9600);
}

void loop(){
  int value = digitalRead(light_pin);
  Serial.println(value);
  delay(100);
}
```

Photoresister	Arduino
+	5v
-	GND
-	A0

Resistance = 1000 Ω

```
int light_pin = A0;

void setup() {
  Serial.begin(9600);
  pinMode(light_pin, INPUT);
}

void loop() {
  Serial.println(analogRead(light_pin));
  delay(100);
}
```

Turn LED on/off according to light condition

Light Dependant Resistor (LDR)

Op-amp LM393

LED ngõ ra digital

Biến trở

LED báo nguồn

A0
D0
GND
VCC

Photocell	Arduino
VCC	5v
GND	GND
DO	
AO	A0

Reading analog signal from A0 pin

The bigger the value, the weaker the light

Fade LED in/out according to the light condition