

ARDUINO

Relay, DHT11,
Potentiomètre,
Photorésistance, Water.

Farouk MEDDAH



PLAN

➤ REALY

- Présentation
- Circuit d'exemple

➤ DHT11

- Présentation
- Circuit d'exemple

➤ POTENTIOMETRE

- Présentation
- Circuit d'exemple

➤ PHOTORESISTANCE

- Présentation
- Circuit d'exemple

➤ WATER SENSOR

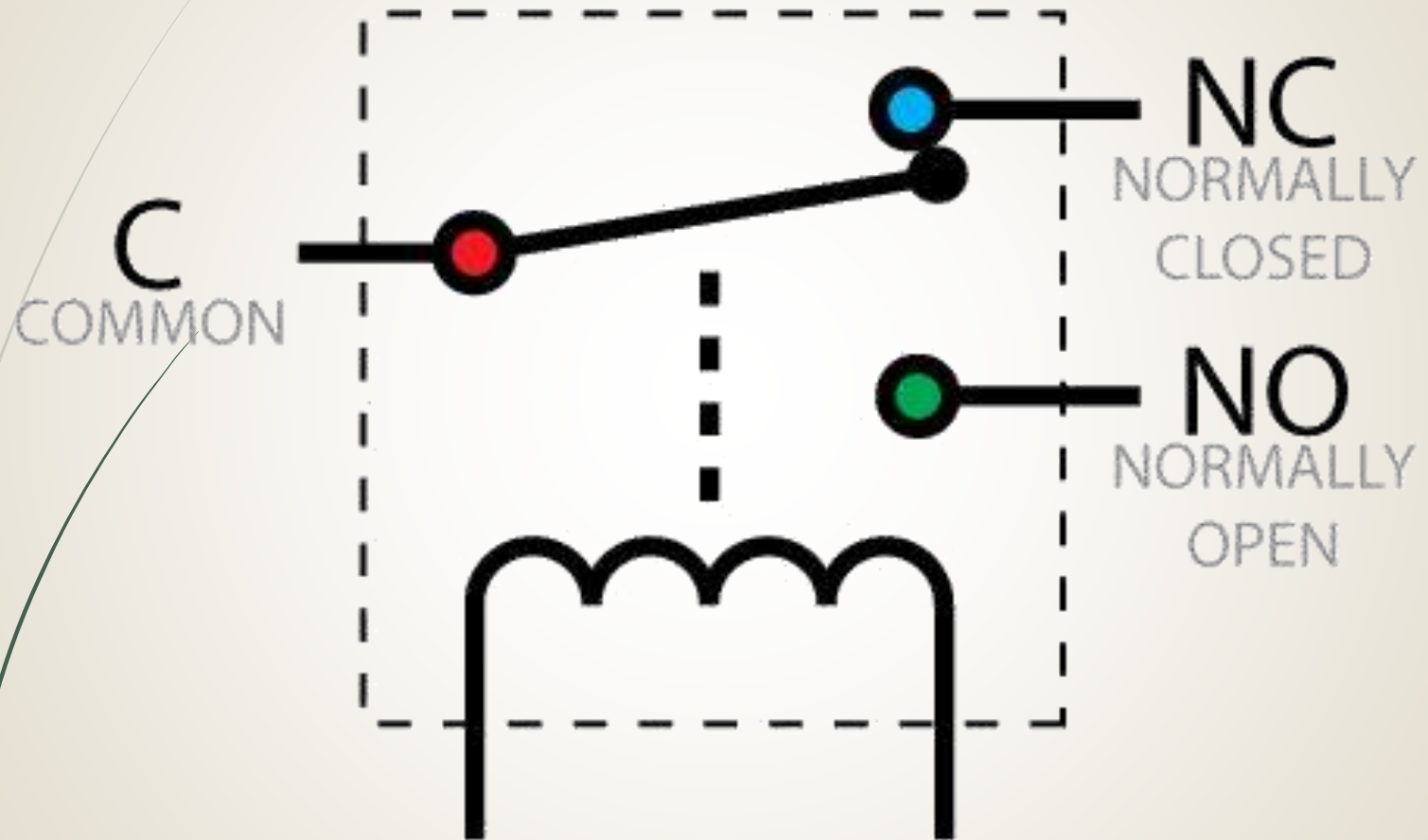


RELAY

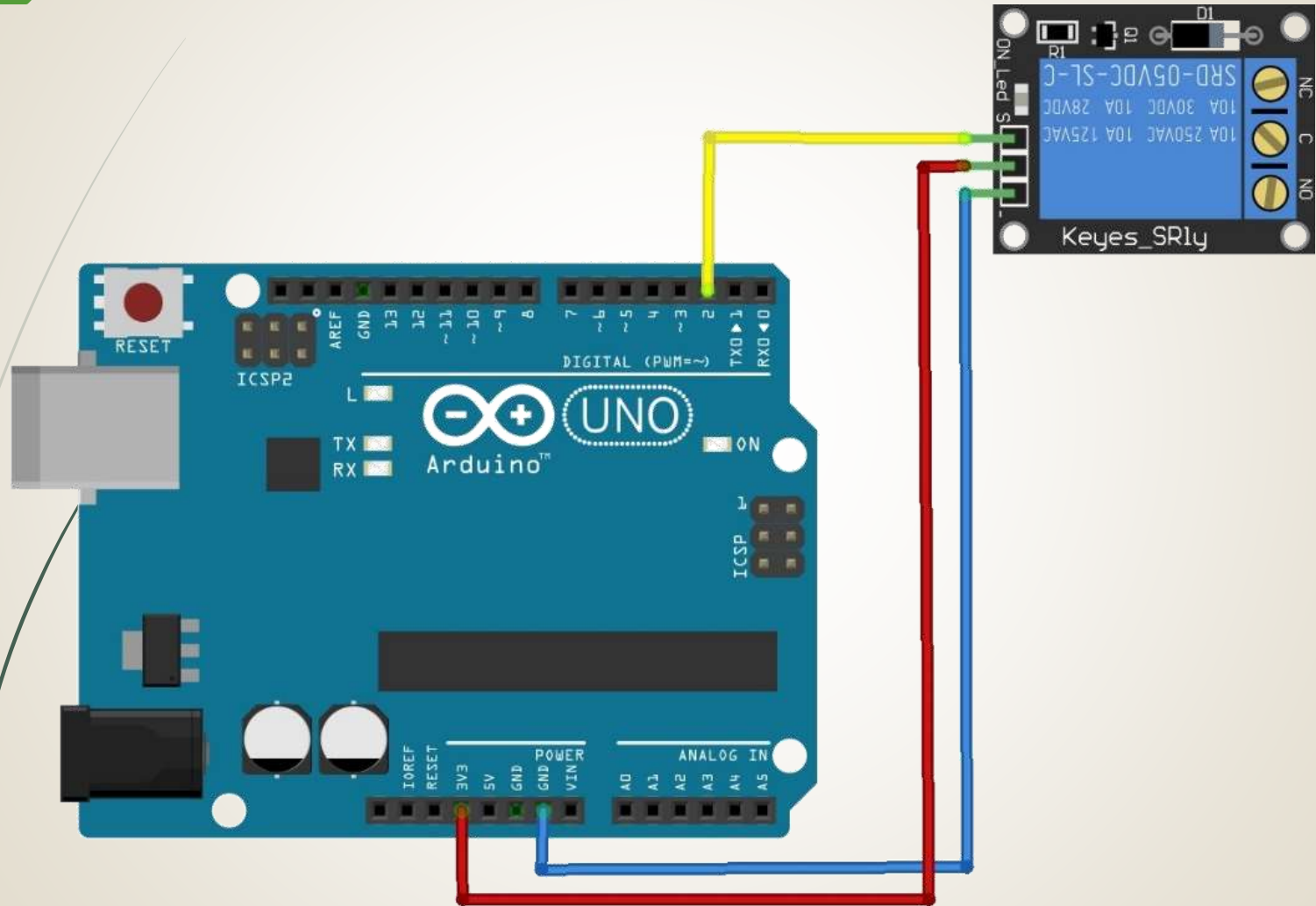
RELAY (1)



RELAY (2)



RELAY (3)



CODE DU PROGRAMME

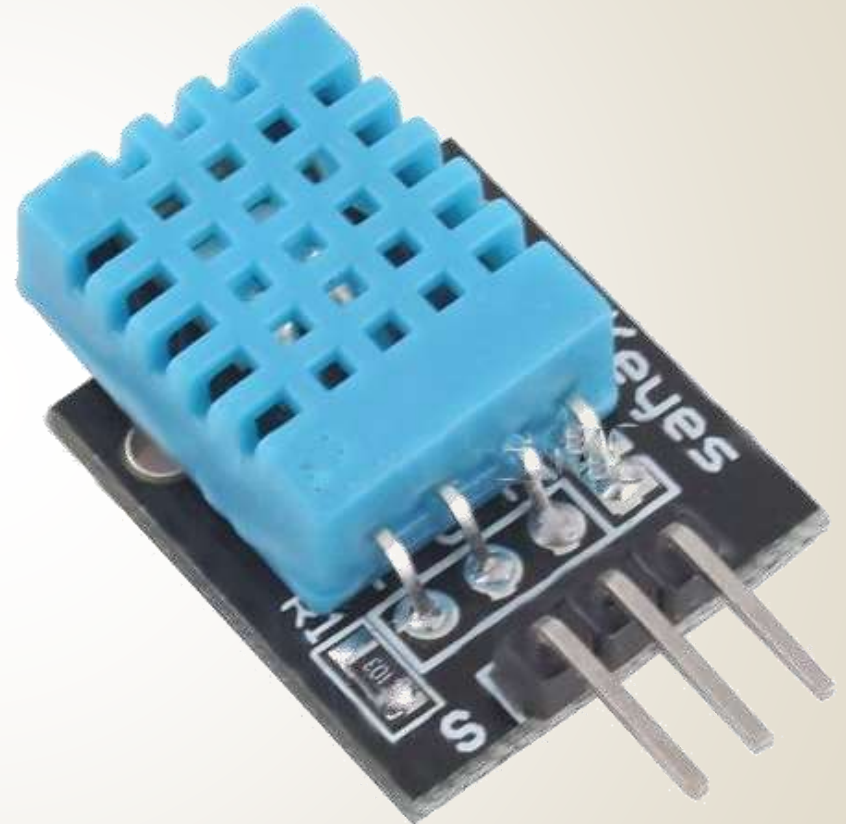
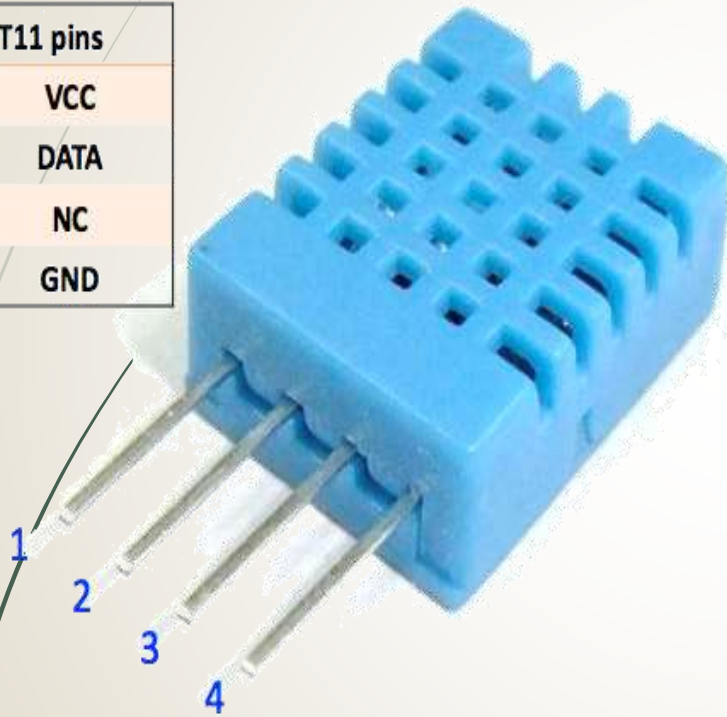
```
void setup()  
{  
    pinMode (3, OUTPUT);  
}  
  
void loop()  
{  
    digitalWrite(3, HIGH);  
    delay(3000);  
    digitalWrite(3, LOW);  
    delay(3000);  
}
```



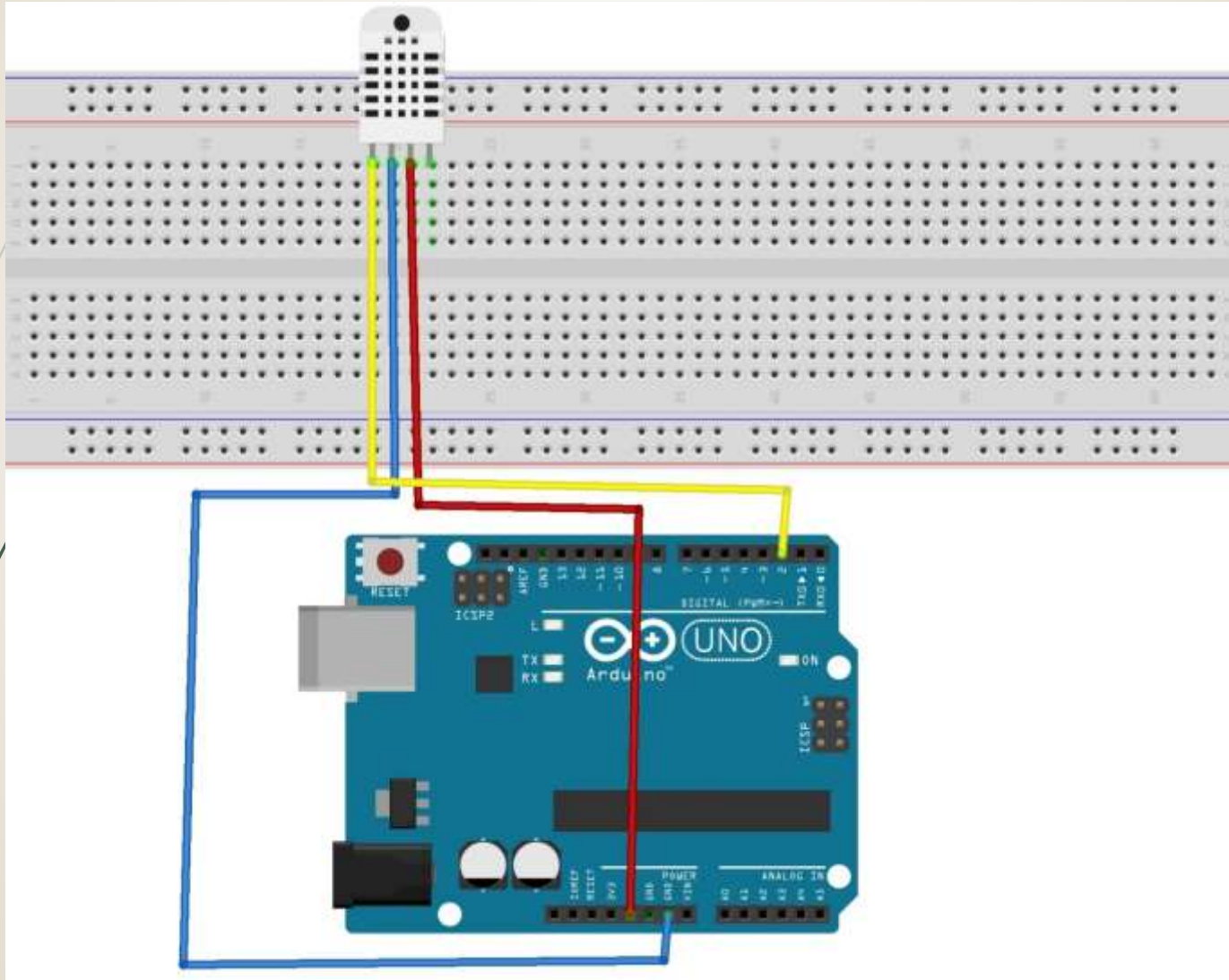

DHT11

DHT11 (1)

DHT11 pins	
1	VCC
2	DATA
3	NC
4	GND



DHT11 (2)



DHT11 (3)

```
#include<dht.h>
dht DHT;

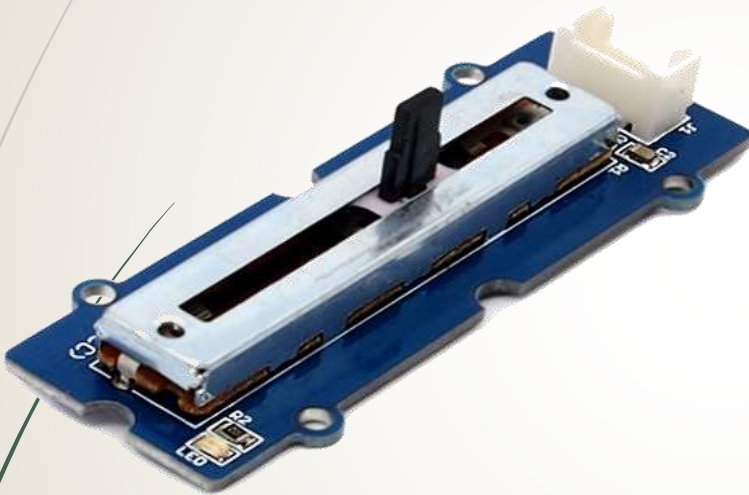
void setup()
{
    Serial.begin ( 9600);
}
void loop()
{
    DHT.read11( 3);
    Serial.print(" Humidity: " ); Serial.print(DHT.humidity, 1);
    Serial.println('%');

    Serial.print(" Temperature ");
    Serial.print(DHT.temperature, 1); Serial.println('C');
    delay(2000);
}
```

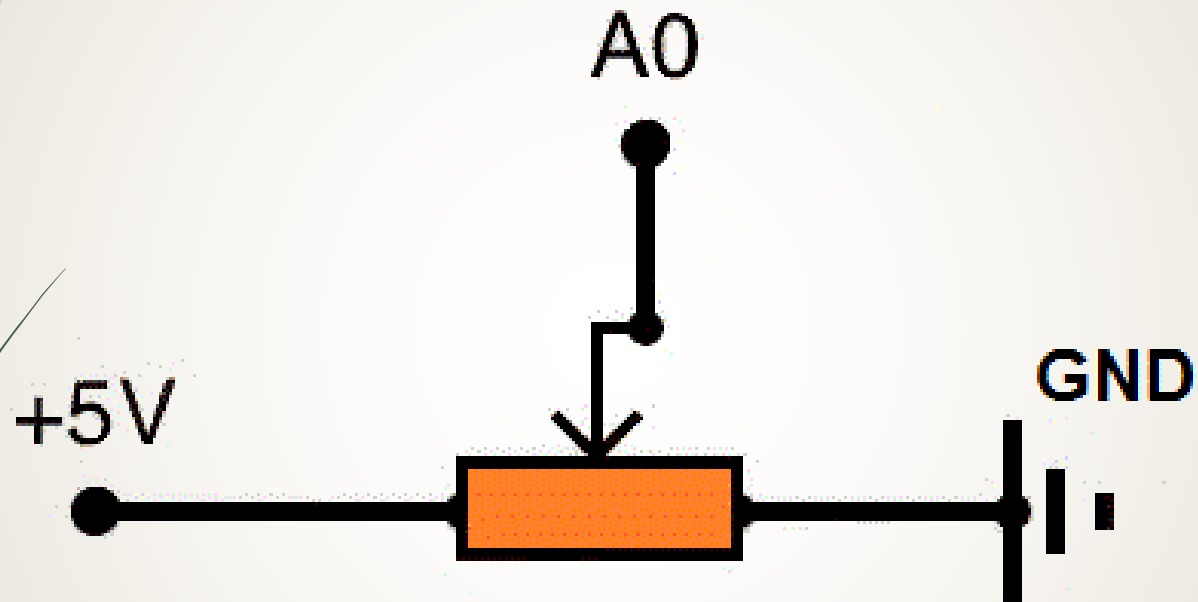


POTENTIOMETRE

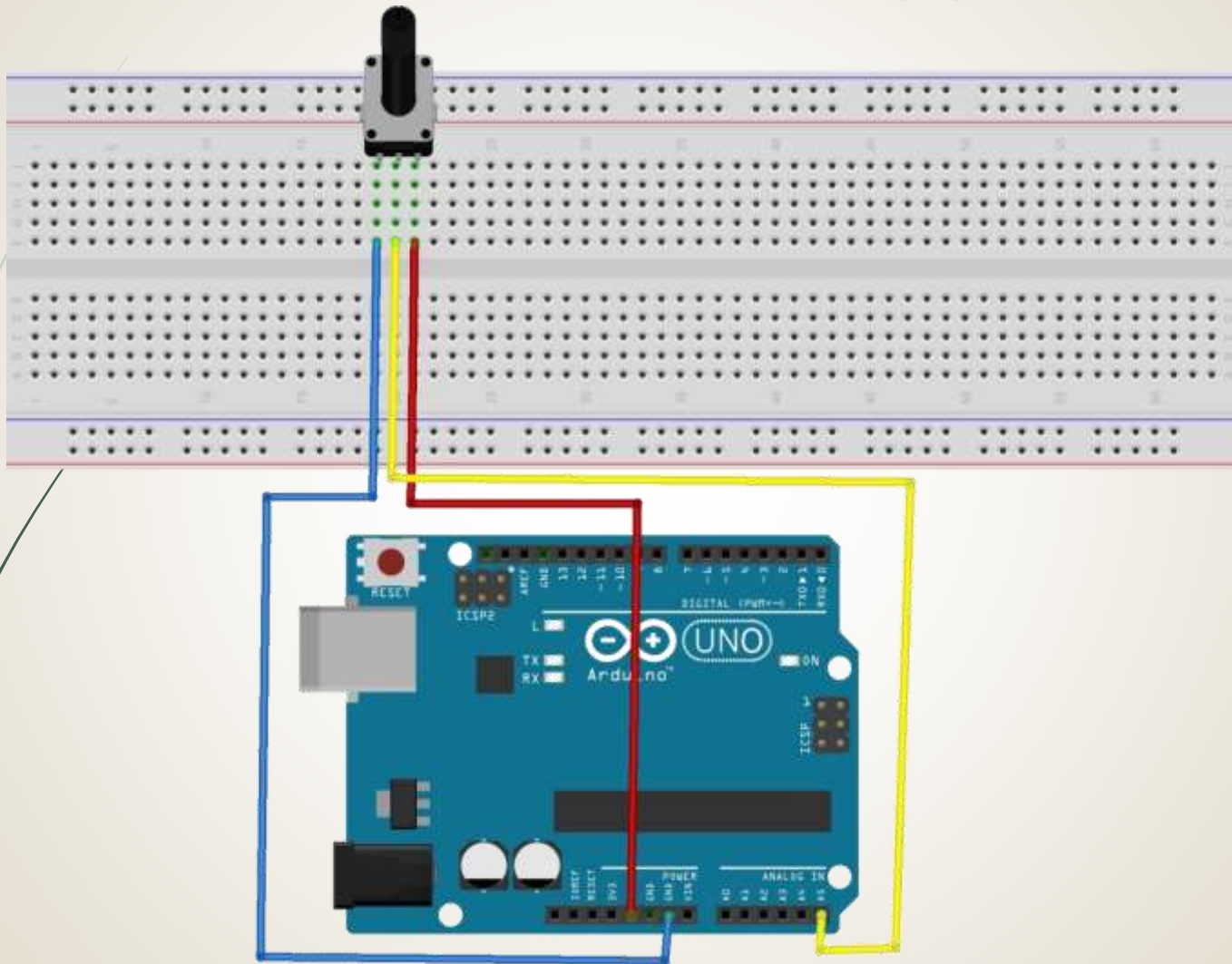
POTENTIOMETRE (1)



POTENTIOMETRE (2)



POTENTIOMETRE (3)



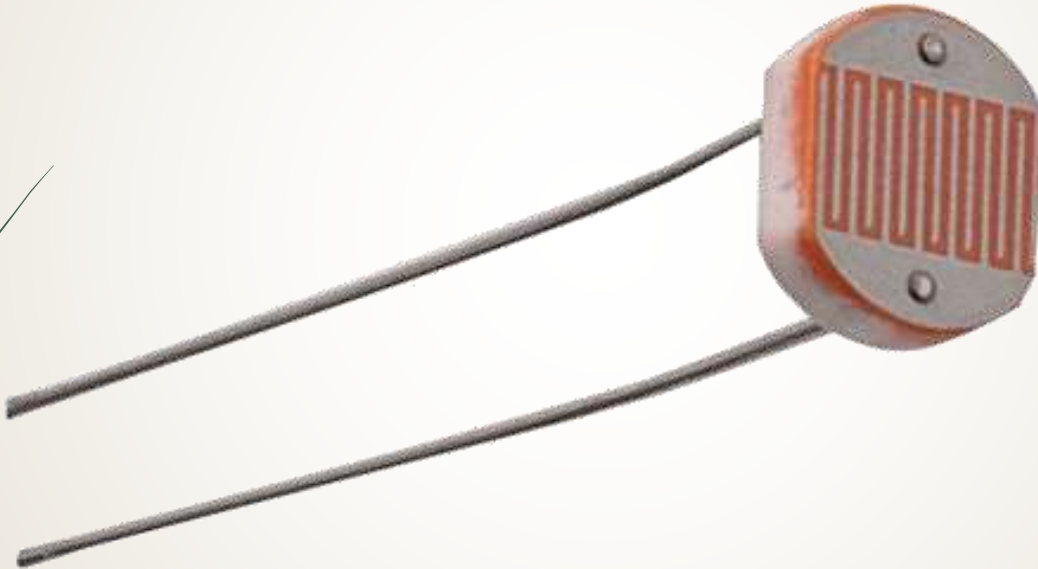
POTENTIOMETRE (4)

```
void setup()  
{  
    Serial.begin ( 9600);  
    Serial.println("Starting...");  
}  
  
void loop()  
{  
    int value = analogRead(A5);  
    Serial.print("Value = "); Serial.println(value);  
  
    delay(1000);  
}
```

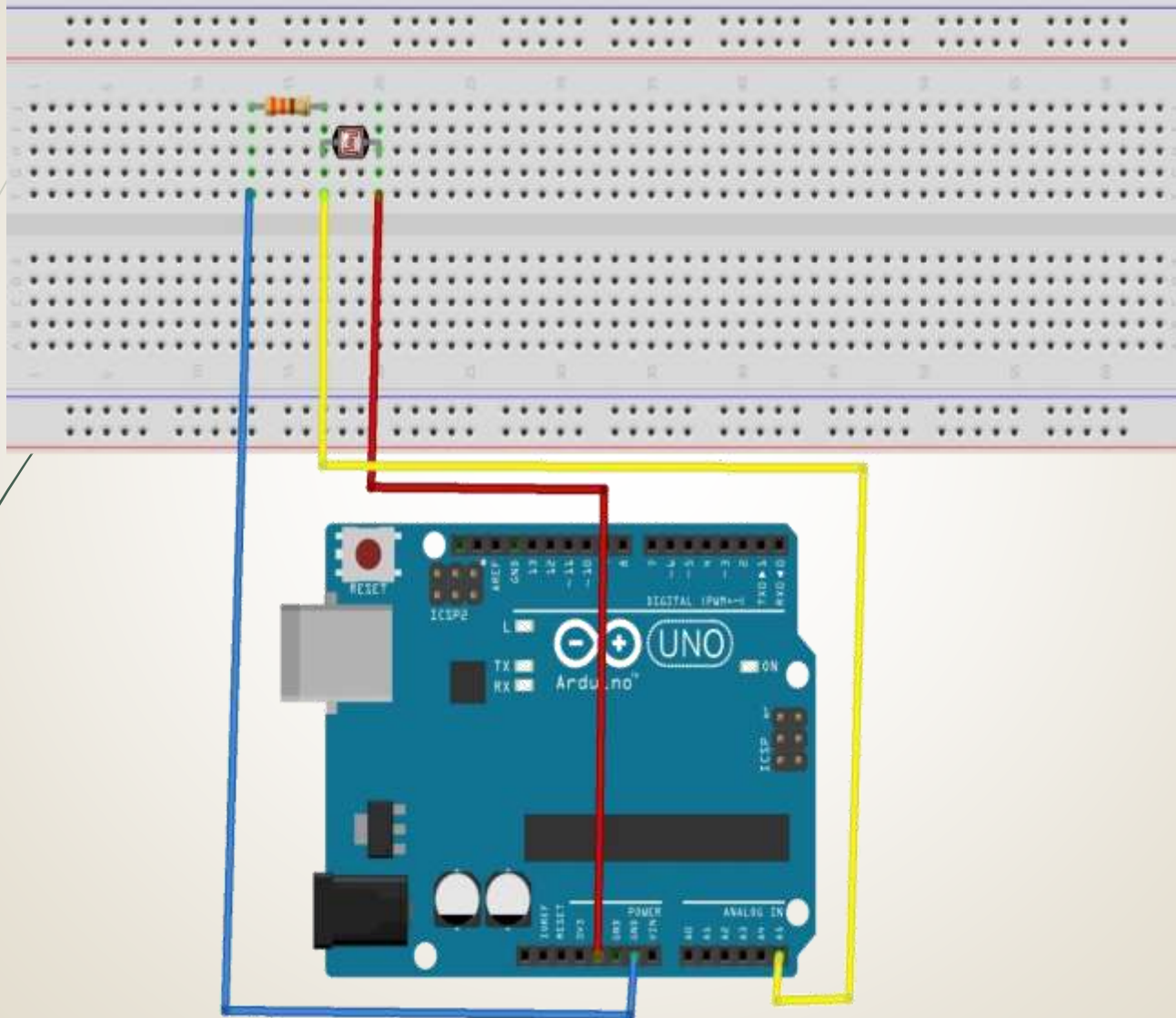


PHOTORESISTANCE

PHOTORESISTANCE (1)



PHOTORESISTANCE (2)





WATER SENSOR

WATER SENSOR (1)





MERCI