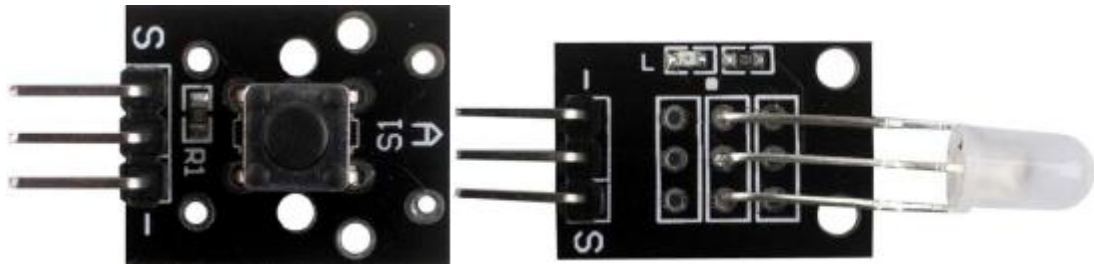


# Button control two-color-LED

## Experiment

### Overview








This lesson will teach you how to use Button control two-color-LED.

### Pin definition

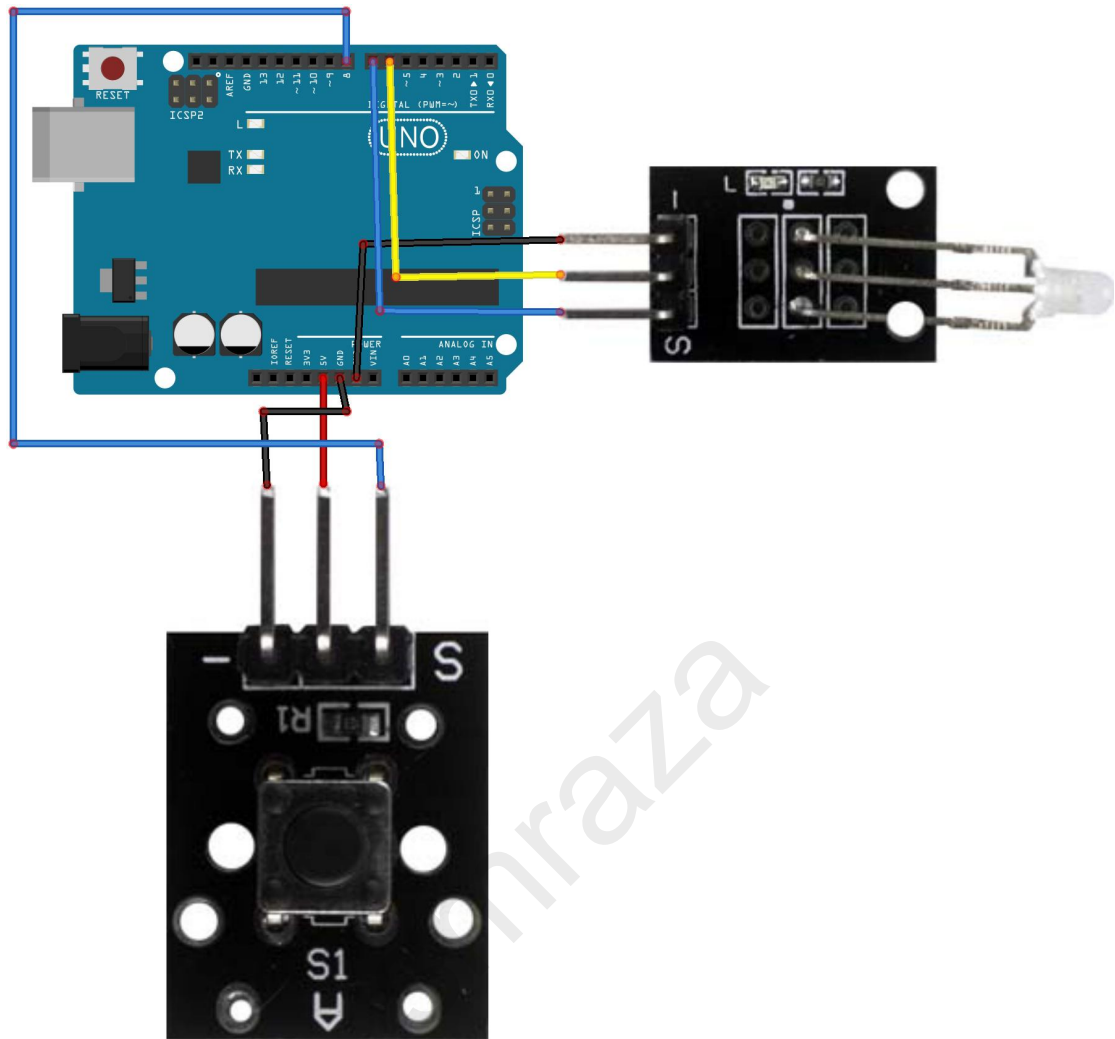
UNO R3      Button  
D8          S  
5V  
GND          " \_ "

UNO R3      Two-color\_LED  
GND          " \_ "  
D6  
D7          S

### Hardware required

Material diagram	Material name	Number
	Button	1
	Two-color_LED	1
	UNO R3	1
	USB Cable	1
	Male to Female Jumper wires	several

## Connection diagram

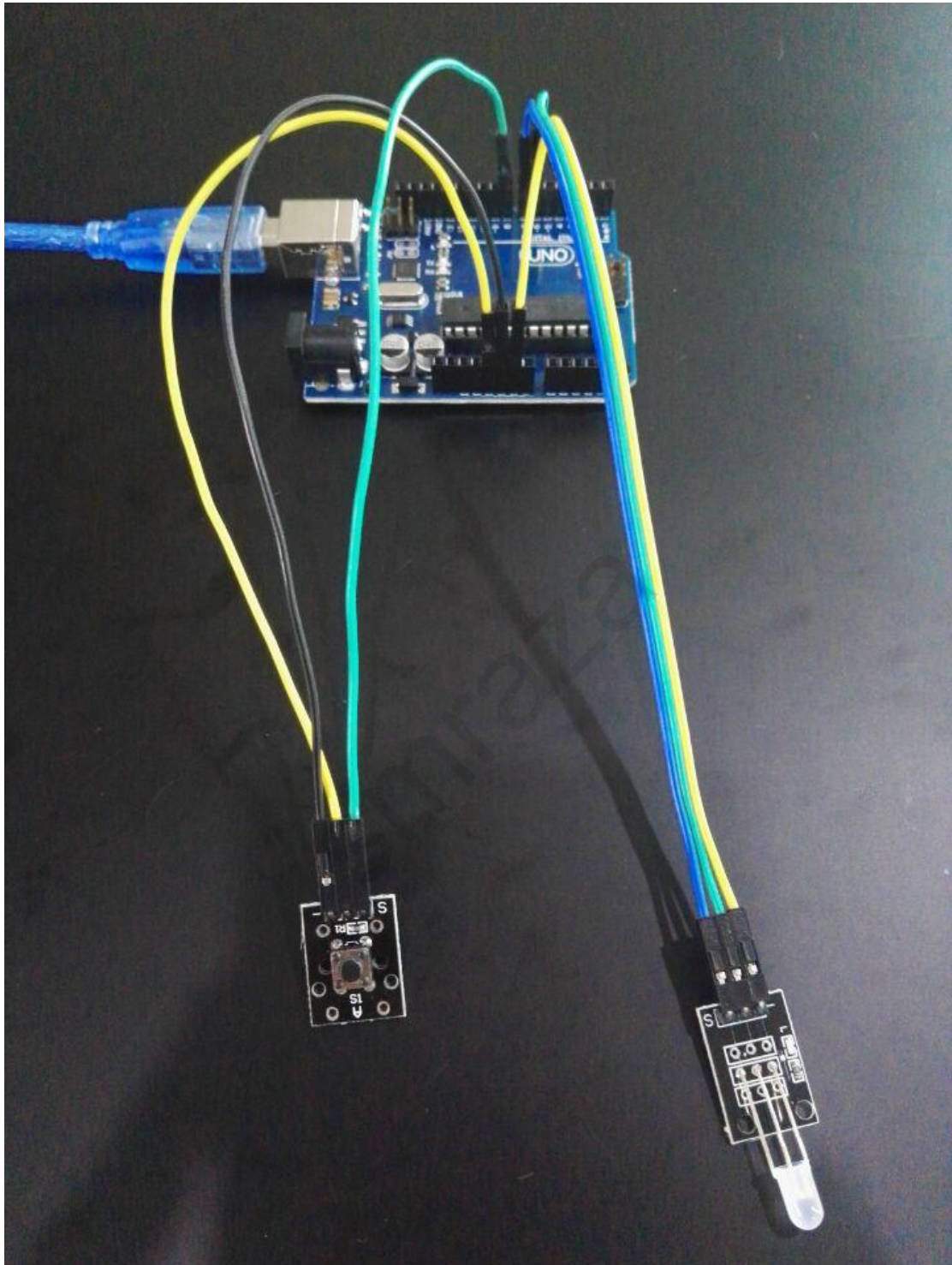


## Sample code

**Note:** sample code under the **Sample code** folder.

```
const int Rled=6;
const int Yled=7;
const int SensorPin =8;
int Data=0;
void setup()
{
  pinMode(Rled,OUTPUT);
  pinMode(Yled,OUTPUT);
  pinMode (SensorPin,INPUT);
  Serial.begin(9600);
}
void loop()
{
  Data=digitalRead(SensorPin);
  Serial.print("Data=");
  if(Data==HIGH)
  {
    Serial.println("Close");
    digitalWrite(Rled,HIGH);
    digitalWrite(Yled,LOW);
    delay(1000);
  }
  else
  {
    Serial.println("Open");
    digitalWrite(Rled,LOW);
    digitalWrite(Yled,HIGH);
    delay(1000);
  }
  delay(300);
}
```

## Example picture



## Language reference

**Tips** : Click on the following name to jump to the web page.

If you fail to open, use the Adobe reader to open this document.

[pinMode\(\)](#)

[digitalRead\(\)](#)

[Serial](#)

## Application effect

Open the serial port monitor, and press the button, you will see some different values by return.

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