experiment 02 : led push button code

```
const int buttonPin = 2;    // the number of the pushbutton pin

const int ledPin = 12;        // the number of the LED pin

// variables will change:


int buttonState = 1;    // variable for reading the pushbutton status

void setup() {

   // initialize the LED pin as an output:

   pinMode(ledPin, OUTPUT);

   // initialize the pushbutton pin as an input:

   pinMode(buttonPin, INPUT);

}

void loop() {

   // read the state of the pushbutton value:

   buttonState = digitalRead(buttonPin);


   // check if the pushbutton is pressed. If it is, the buttonState is HIGH:

   if (buttonState == HIGH) {

      // turn LED on:

      digitalWrite(ledPin, LOW);

   } else {

      // turn LED off:

      digitalWrite(ledPin, HIGH);

   }

}
```