5. Sticky On/Off button

Lets program a second behaviour that to make the button "stick".

Code

```
// Turn on LED when the button is pressed
// and keep it on after it is released
const int buttonPin = 2;
const int ledPin = 13;
int buttonState = 0; // variable for reading the pushbutton status
                  // val will be used to store the state of the input pin
int val = 0;
void setup() {
 // initialize the LED pin as an output
 // & the pushbutton pin as an input
 pinMode(ledPin, OUTPUT);
 pinMode(buttonPin, INPUT);
void loop() {
 // read the state of the pushbutton value:
 val = digitalRead(buttonPin);
 // check if there was a transition
 if ((val == HIGH) \&\& (old_val == LOW)) {
   buttonState = 1 - buttonState;
   delay(10); // small delay for debouncing
 }
 old_val = val; // val is now old, let's store it
 // check if the pushbutton is pressed. If it is, the buttonState is HIGH:
 if (buttonState == 1) {
   digitalWrite(ledPin, HIGH); // turn LED on
   digitalWrite(ledPin, LOW); // turn LED off
 }
}
```