/\*PCE-3 Modified by Pat McMahon 12/10/2022.Uses Pat's 20 Plug & Code Examples.

  Button

  Connections-LED to Gnd & D13, push button switch to +5V,D2 & Gnd.

  Turns on and off a light emitting diode(LED) connected to digital pin 13,

  when pressing a pushbutton attached to pin 2.

  The circuit:

  - LED attached from pin 13 to ground

  - pushbutton attached to pin 2 from +5V

  - 10K resistor attached to pin 2 from ground

  - Note: on most Arduinos there is already an LED on the board

    attached to pin 13.

  created 2005

  by DojoDave <http://www.0j0.org>

  modified 30 Aug 2011

  by Tom Igoe

  This example code is in the public domain.

  http://www.arduino.cc/en/Tutorial/Button

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// constants won't change. They're used here to set pin numbers:

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

const int ledPin =  13;      // the number of the LED pin

// variables will change:

int buttonState = 0;         // 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, HIGH);

  } else {

    // turn LED off:

    digitalWrite(ledPin, LOW);

  }

}