EEPROM

```
// pin definitions
int ledPin = 13;
int buttonPin = 2;
// global variables
int lastButtonState = 1;
long unsigned int lastPress;
int debounceTime = 20;
int counter;
void setup() {
 // setup pin modes
 pinMode(ledPin, OUTPUT);
 pinMode(buttonPin, INPUT PULLUP);
 //initialise Serial port
 Serial.begin(9600);
 //assign counter the value of address 0
 counter = EEPROM.read(0);
 //write a 0 to address 0. This allows for consecutive resets to reset the counter
 EEPROM.write(0,0);
```

Programmering

```
void loop() {
 int buttonState = digitalRead(buttonPin); //read the state of buttonPin and store it as buttonState (0 or 1)
 if((millis() - lastPress) > debounceTime) //if the time between the last buttonChange is greater than the
debounceTime
  lastPress = millis(); //update lastPress
  if(buttonState == 0 && lastButtonState == 1) //if button is pressed and was released last change
   counter++:
   EEPROM.write(0, counter); //write counter to address 0
   digitalWrite(ledPin, HIGH); //momentary LED
   lastButtonState = 0; //record the lastButtonState
   //print the results
   Serial.print("Counter: ");
   Serial.println(counter);
  if(buttonState == 1 && lastButtonState == 0) //if button is not pressed, and was pressed last change
   lastButtonState = 1; //record the lastButtonState
   digitalWrite(ledPin, LOW); //momentary LED
```

Programmering

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