

# Ενεργοποίηση προγράμματος με το πάτημα ενός κουμπιού

(πιέζοντας το SW0 που είναι συνδεδεμένο στο port C, να ανάψουν τα LED's)

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```
;**** PRESS THE SW0 BUTTON >> START RUNNING THE MAIN PROGRAM ****
```

```
.include "m32def.inc"
```

```
reset: ;Main program entry point on reset starts at the end of interrupt vector table
```

```
    ldi    R16,0b11111111    ;turn OFF all STK500 LEDs
    out    PORTB,R16
```

```
    ldi    R17,0b11111111    ;set PBO-7 as outputs (STK500 LEDs)
    out    DDRB,R17
```

```
***** START & SAMPLING RATE SELECTION BUTTON *****
```

```
    ldi    R18,0b11111111    ;enable pull up resistor on each input pin of PORTC
    out    PORTC,R18
```

```
    ldi    R19,0b00000000    ;set PORTC as INPUT for switches
    out    DDRC,R19
```

```
startbtn:
```

```
    in     R20, PINC          ;store PINC register value (input values) to R20
    sbrc  R20, pc0           ;check the pc0 bit value, skip next instruction if pc0 = zero
    rjmp  startbtn
```

```
***** STARTING MAIN PROGRAM *****
```

```
main:
```

```
    ldi    R21, 0b00000000
    out    PORTB, R21
    rjmp  main
```