# TIMER PSEUDOCODES

24 Aralık 2024 Salı 16:52

PSEUDO CODE : programming timer0 in normal mode

1- Load the TCNT0 register w/ initial count value.

2- Load the value into the TCCR0 repister, indicating which mode (8-bit/16-bit) is to be used and the prescaler option. When you select the clock source, the timer/counter starts to count, and each tick causes the content of the timer/counter to increment by 1.

3- Keep monitoring the timer overflow flag (TOV0) to see if it is raised. Get out of the loop when TOV0 becomes high.

4- Stop the timer by disconnecting the clock source, using the following instructions:

a- Clear the TOV0 flag for the next round.

b- Go back to step1 to load TCNT0 again.

PSEUDOCODE: programming timer 0 in CTC mode.

1- Load OCR0

2- Load TCCR0 to set the mode & to start the timer 0

a- As the timer (TCCR0) counts up: 00, 01, 02...

And reaches content of OCR0

b- One more clock makes it 0 and OCF0 = 1

3- Stop timer 0

4- OCF0 is set.