SP3_3 Add an LCD display (design phase #2) → *Prog_timer_LCD*

I. Specifications

Enhance *Prog_Timer* interfacing and LCD at PORTD to show ASCII messages.
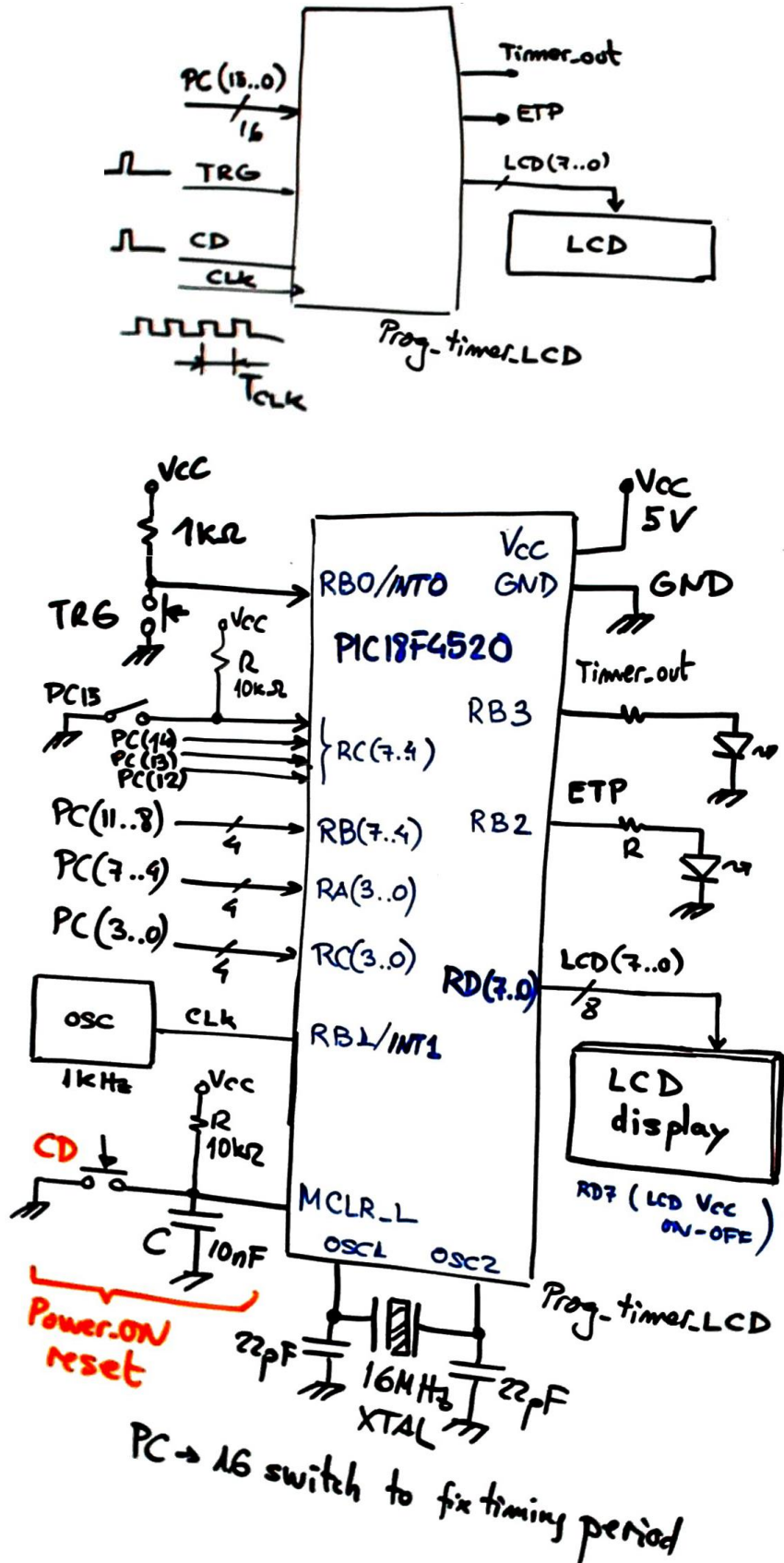

Fig. 1 Programmable timer *Prog_timer_LCD*.

II.   Planning.

Study LCD examples in P11. Add the LCD at the hardware schematic.

Study C libraries for interfacing an LCD device. Discuss what functions has to be modified to add the interface to the LCD and draw the flowcharts.

III.   Development, debugging

IV.   Test

Start a new MPLABX project *Prog_Timer_LCD_prj* , compile and run and verify in Proteus that your circuit work as expected representing some messages on the screen.

V.   Questions

- How to represent numerical data in seconds on the display when counting up?

- What is the purpose of var_LCD_flag?