Assembly Language Programming: Laboratory Test (Group-B)

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1. Using 10ms timebase, write a program that sends " hello world" to terminal with a counting number, say 1, 2, 3, every 500ms, looping until the count reaches 100 then return to monitor program.

2. Having 1 bit output port, say P1.7 connected to LED, write a program receives LED time on value from terminal, say 1-10 seconds, turns LED on when receives space bar code with a period equal to time on value. When timeout turns LED off. If enter ESC, returns to monitor program. (use 10ms timebase).

3. Write a program that moves on-chip data from 00-7FH to external RAM 9000H-907FH. If the byte to be moved is 00H then substitute with FFH.

4. Add 10-digit BCD number and print result on screen.

5. Write a program that prints content of SFRs on screen (80H-FFH).

6. Write a simple digital clock program using timer0 interrupt. Show the running clock on terminal every second.