Programming for Embedded System

Timing for Programs(ALP)

- 8051 microcontroller connected to 11.0592 MHz crystal oscillator. Find total time delay of below program. <u>Follow past lectures Topic:Period of machine cycle.</u>

      MOV R3, #55

      DEC R3

      ADD A, #25

Timing for Programs

- 8051 microcontroller connected to 11.0592 MHz crystal oscillator.Find total time delay of below program

Instruction	Machine Cycle	Time to execute
MOV R3, #55	1	1.085 μs
DEC R3	1	1.085 μs
ADD A, #25	1	1.085 μs

Total time delay of the program= 1.085 μs*3= 3.225 μs

Timing for Programs

- 8051 microcontroller connected to 11.0592 MHz crystal oscillator.Find total time delay of below program

Instruction	Machine Cycle	Total Time delay: 401* 1.085=435.085 µs
MOV R3, # 200	1	
Here: DJNZ R3, Here	2 *200	

LCD Interfacing with 8051 & ALP

- Pdf in Moodle