
Instructions:

After completing coding, every group prepares your lab program in the following format and submits in your AUMS (15cse285)

- I. Questions**
 - II. Coding with necessary commands to be given for every instruction**
 - III. Screen shot of the output**
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1. Write a 8051 Assembly Language Program (ALP) to exchange data between register bank 0 to register bank 1 (use R0 to R7 register)
 - a. Without stack operation
 - b. With stack operation
2. Write a 8051 Assembly Language Program (ALP) to read 8 data from register bank 0 and perform the following operations: (R0-R3 will added to R4-R7)
 - a. Addition (store the results in register bank 1) without stack
 - b. Addition (store the results in register bank 1) with stack
3. Write a 8051 Assembly Language Program (ALP) to perform addition of two number and do the following task:
 - a. Select Input, should not produce any carry and show status in PSW
 - b. Select Input, should produce carry and show status in PSW
 - c. Select Input, should produce auxiliary carry and show status in PSW
 - d. Select Input, should not produce auxiliary carry and show status in PSW
4. Write a 8051 Assembly Language Program (ALP) to find the square of a given number (store input data in R0 and output in R7)
5. Write a 8051 Assembly Language Program (ALP) to find the cube of a given number (store input data in R0 and output in R7)
6. Write a 8051 Assembly Language Program (ALP) to find a number of bits in a given number is even numbers of one's or not? (clue: PSW)

Note: Manual check is enough. If you check through Program it's good (try....)

7. Write a 8051 Assembly Language Program (ALP) to add two number and store the value in 60H memory location (**clue: stack pointer**)
8. Write a 8051 Assembly Language Program (ALP) to display your name in registers (**clue: #' a')**