

**Final Assignment (CSE331L_Fall'20)**

Department of Electrical and Computer Engineering

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*(You need to answer all questions).***Submission Instructions:**

- Submit your .asm code along with full window output screenshot in the "Solution" Folder.
- Rename your asm code according to question no.

1. Write a program in assembly language that can read a Lower-Case alphabet and convert it to Upper Case Alphabet.
2. Write a program in Assembly language to input the alphabet from a to z and print it reverse wise.
3. Write a program in Assembly language to compute the divide of AL by 4 using SHR instruction
4. Write a program in Assembly language to compute the divide of AL by 4 using SHR instruction
5. Write a program in Assembly language to verify an even or odd number only by using the "TEST" instruction.
6. Write a program in Assembly language to input 2 integer number and compute the LCM of the int.
7. Write a program in assembly language that will take 2 inputs from a user and multiply. If the result is greater than 15 then it will display 1 in the next line, otherwise 0.
8. A palindrome is a character string that reads the same in forward and backward. Write a program in assembly language
 - a) let the user input a string
 - b) print it forward and backward on successive lines
 - c) Decide whether it is palindrome and print the conclusion.
9. Write a program in Assembly language that search for vowels inside a string. The string should be taken from the user. Once the vowels are found, your program should output the total number of vowels.