Final *(CSE331L.7 – Asif Ahmed Neloy_Summer'20)*

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*Time 90 minutes, Marks 100 **(You need to answer all questions).***

- Do not write anything in this pdf.
- Submit .asm code and screenshot in the Script folder. Rename the .asm and screenshot file according to your question number. (e.g.- for question no 1, your file names should be **1.asm** and **1.jpg**)

1. Write a program in assembly language that can read a Lower-Case alphabet and convert it to Upper Case Alphabet.

   > **Example:**
   > Lower-Case: a
   > Upper-Case: A

2. Write a program in assembly language to read a HEX number and print the binary of that number.

   > **Example:**
   > Number in HEX: 56
   > Number in Binary: 1010110

3. Write a program in Assembly language to input the alphabet from a to z and print it reverse wise.

   > **Example:**
   > Alphabets: a
   >   b
   >   c
   >   .
   >   .
   >   .
   >   z

```
Reverse: z
         y
         x
         .
         .
         .
         a
```

4. Write a program in Assembly language to compute the divide of AL by 4 using SHR instruction

   Example:
   AL: 8
   Divide SHR by 4: 2

5. Write a program in Assembly language to print the Fibonacci series number from a given range

   Example:
   Enter the Range: 8
   Fib Series: 0, 1, 1, 2, 3, 5, 8, 13

6. Write a program in Assembly language to verify an even or odd number only by using the "TEST" instruction

   Example:
   Enter the int: 7
   7 is an odd number.

7. Write a program in Assembly language to input 2 integer number and print the smallest of them

   Example:
   Enter int 1: 7
   Enter int 2: 6
   Smallest int: 6

8. Write a program in Assembly language to input 2 integer number and print the multiplication of the numbers

        Example:
        Enter int 1: 2
        Enter int 2: 4
        MUL: 8

9. Write a program in Assembly language to input 2 integer number and compute the lcm of the ints.

        Example:
        Enter int 1: 6
        Enter int 2: 8
        LCM: 24

10. Write a program in Assembly language to input 2 integer number and compute the subtraction of the ints.

        Example:
        Enter int 1: 8
        Enter int 2: 2
        SUB: 2