

# COAL FALL 2021

## BSCSF20

### Lab # 6

You are required to prepare the ASM file of each task. Submit All ASM files. Please create a RAR file with your roll number containing all tasks.

#### Task 1

Write an Assembly Language Program that lets the user to Enter 5 binary numbers 8 bit each, store these numbers in an array and then display these numbers in Hexadecimal form on console. Use **HexadecimalOutput** and **BinaryInput** Procedures as discuss in class.

#### Task 2

Write an Assembly Language Program that lets the user type some text, consisting of words separated by blanks, ending with a carriage return, and displays the text in the same word ordered as entered, but with the letters in each word reversed. **[Use stack for this task]**

##### Sample execution:

Enter a string: **COAL is an interesting Subject**

You Enter: **LAOC si na gnitseretni tcejbuS**

#### Task 3

Write an Assembly Language Program to

- (a) Read a number in binary form,
- (b) Display a number in hexadecimal form,
- (c) Display Reverse hexadecimal pattern of the number

**[Use procedures (functions) for each part]**

##### Sample execution:

Enter a Binary Number: **10011101**

Hexadecimal number is: **9B**

Hexadecimal number in reverse pattern is: **B9**