COAL FALL 2021 BSCSF20 Lab # 4

You are required to prepare the ASM file of each task.

Task 1:

Write an Assembly Language Program that reads a string of characters terminated by CR [enter key] and display it in reverse order.

Sample execution:

Enter a String: **School** In reverse order: loohcS

Task 2:

Write an Assembly Language Program that reads a string of characters terminated by CR and display the count of vowel character [assume that the number of vowel character in string are less than 10]

Sample execution:

Enter a String: COAL is interesting subject.

Vowel Character are: 9

Task 3:

Write a program that will

- a) Prompt the user to enter a character
- b) On the next line prints its ASCII code in binary
- c) The number of 1 bit in its ASCII code.

Sample execution:

Enter a character: A

The ASCII code of **A** in binary is 01000001

The number of 1 bit is 2

Task 4:

Write a program that will

- a) Prompt the user to enter a character
- b) On the next line prints its ASCII code in HEX
- c) Repeat this process until the user type a carriage return

Sample execution:

Enter a character: Z

The ASCII code of Z in HEX is 5A

Enter a character: A

The ASCII code of A in HEX is 41

Enter a character:

Task 5:

Write an Assembly Language Program that reads a string of characters terminated by CR and display it's all words with reverse order.

Sample execution:

Enter a String: **COAL** is interesting subject Now String is: **LAOC** si gnitserstni tcejbus