**Final Lab Activities**

Computer Organization and Assembly Language Lab, Fall 2017  
FAST-NUCES

**Task 1:**

Write a program that reads an input string from the user and prints the word count of articles (a, an & the) in that string.

**Task 2:**

Write a program to encrypt a given input string (take input from the user). The program should encrypt each character by adding 40 to its ASCII value then save the encrypted string in a new text file named *myEncryption.txt*.

**Task 3:**

Write an assembly language program to perform selection sort. The program should call a C++ functions to perform sorting.

**Task 4:**

Write a C++ program to fill an **int** array of 10 elements with any random value in the range 256 to 512. Then use inline assembly language code to sort the array with respect to the 3rd byte of each element.