Lab Tasks   weightage: 3.0

1. Write the following procedures in assembly language and call them in main program;
   a. Factorial (n)
   b. Power (a,b)
   c. Swap (a,b)

2. Create three DWORD arrays each of size 5 and fill up the first two arrays from user input values. Write an assembly procedure named as **ArraySum** having three array parameters and it will store the sum in third array by adding one-to-one elements of first two arrays.

3. Write a procedure to read a string representing person's name in the order like

         First Name   Middle Name   Last Name

   And displays in the format like

         Last Name   First Name   Middle Name

4. Write an assembly procedure having one parameter N to show the FIBONACII Series up to N-terms. Test your procedure with N=10. First two terms **0, 1** are given to you, proceed next with the formula given below.

   $$F_n = F_{n-1} + F_{n-2}$$

   e.g.   0,1,1,2,3,5,8,13,21,34,55…...

5. Create an array of size 10, initialize this array with user input values and apply any sorting algorithm to sort the array in ascending order. You must write a separate procedure for sorting algorithm and call it in main program.