



University of Central Punjab

(Incorporated by Ordinance No. XXIV of 2002 promulgated by Government of the Punjab)

FACULTY OF INFORMATION TECHNOLOGY

Programming Fundamentals

Assignment 03 (PF-A)

Instructions

Deadline: Monday, June 15, 2020 - 11:59:59 pm

- You can only submit on CMS Potal OR MS Teams. Submission on any other channel will not be considered.
- No late submission in any case will be accepted
- Copying from others will result in Zero (For both parties.)
- Put all *.cpp files into a folder and compress it
- Rename compressed file with your Registration No.
- Send only *.cpp files of code

Question No. 01

Write a C++ program which read data from a text file. Suppose text file contains a paragraph about any topic. Your program asks user to enter file name without extension. Now, a user defined function (**name: ReadWordByWord()**) reads all data word by word and store in a character type array with dynamically grows according to the data.

Finally, declare a user defined function (**name: SaveInReverse()**) which stores this text into a text file (name is entered by user) in reverse order of words e.g. *last words will be stored at start, then 2nd last word, 3rd last word etc. of original document.*

Sample Output:

Enter input file name: Input	Input.txt
	Galaxy and Note series mobiles of Samsung are very efficient.
Enter Output file name: Output	Output.txt
	Efficient very are Samsung of mobiles series Note and Galaxy.

Question No. 02

Write a program in C++ which continuously ask user to enter integer data until user enters -1. Read all these data items in an array which dynamically grows. Now, sort this array in ascending and descending order using two different user defined functions '**SortInAscending()**' and '**SortInDescending()**' respectively. Display the array contents on console using '**displayContents()**' function. Now, Ask user to enter any value to be searched from array. Search this value in array and display how many times this value exists in array (*at which index(s)*).

Sample Output:

Enter value 01: 54

Enter value 02: 8

Enter value 03: 14

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Enter value 08: 74

Enter value 09: -1

Before Sorting Display:

54 8 14 7 54 11 45 74

Ascending order display:

7 8 11 14 45 54 54 74

Descending order display:

74 54 54 45 14 11 8 7

Enter any value to be searched: 54

Value found 2 times at index 0 and 4.