National University of Computer and Emerging Sciences Islamabad

Programming Fundamentals Lab FALL 2019

Lab Manual 10
Arrays-1D

Lab Tasks

Problem 01
In this task you need to do the following:

1. Declare an integer array of size 5 and print its values.
2. Now take 5 values from user as input and store them in this array
3. Print all the values of array in reverse order

Note: You are not allowed to use any loop. :

Problem 02
Take 5 integer inputs from user and store them in an array. Again ask user to give a number. Now, tell user whether that number is present in array or not.

Problem 03
Take 11 floating point numbers from user and store them in an array. Now, compute and display average of elements at first, middle and last positions.

Problem 04
Take 5 integer inputs from user and store them in an array. Now, copy all the elements in another array but in reverse order.

Problem 05
Write a program to display largest and smallest elements of an Array.

Problem 06
Write a program to add the most significant digits of all the elements in 1D-Array.
Example:
Input: [321, 2345, 4, 876, 54]
Ouput: 3+2+4+8+5 = 22

Problem 07

Write a program that can swap the second largest and second smallest values in an array of size 10.

Problem 08

In this task, you need to do the following:

- declare a character array of size 20
- ask user to enter a sentence and store it in this array
- Display number of upper case and lower case letters
- print frequency of each vowel in the input
- Capitalize first letter of each word

Submission Instructions:

1. Save all **.cpp** files with your roll no and task number
   e.g. i19XXXX_Task01.cpp
2. Now create a new folder with name *ROLLNO_LAB10* **e.g. i19XXXX_LAB10**
3. Move all of your .cpp files to this newly created directory and compress it into **.zip file**.
4. Now you have to submit this zipped file on Slate.

THE END