

152112011 Computer Programming LAB – A/B

HOMEWORK 1

Due to: 10 March 2022, 23:59

Objectives:

- C++ Programming Arrays
- In this lab, the use of arrays will be realized by using the C++ programming language.
- C++ File name is **StudentID_HW1_qNO.cpp**
- **Note: Write comments in your code for explaining steps.**
- **Note: Pay attention to the indentations in your code.**

Question 1:

- ✓ Define the arrays A with the 10 values you received from the user.
- ✓ Define the 5-element array B and fill in it with multiplication of two values (x, y) by going forward and backward according to their indices in array B one by one.
- ✓ Check the B array to be sure that all elements of B is unique. If there is more than one of the same values, -1 value should be assigned to other repeating values.
- ✓ Sample:
Step-1 : A (4,2,6,5,4,5,8,2,7,3)
Step-2 : B (12,14,12,40,20)
Step-3 : B (12,14,-1,40,20)

Question 2:

- ✓ Define the arrays C with the 5 values you received from the user.
- ✓ Print the elements in the array C with the array indexes.
- ✓ Find and print duplicate elements in the array C.
- ✓ Print counts of a total number of unique elements in the array C.
- ✓ Find and print maximum and minimum element in array C with using one of the Bubble Sort, Insertion Sort or Selection Sort algorithm.