

## CL-1002

### Programming Fundamentals

### Lab # 10

#### Objectives:

- Practice and understanding on basic C++ programs
- 1-D Arrays
- Nested Loops
- Loops with arrays
- Introduction to 2D array

**Note:** Carefully read the following instructions (*Each instruction contains a weightage*)

1. First think about statement problems and then write your program.
2. Write Program in C/C++ compiler/IDE and save source file **for each program**.
3. *Do not copy from any source otherwise you will be penalized with negative marks.*
4. Complete your lab **within given Time Slot**.
5. Add your source code in this word document + Make one ZIP file of your all source codes.
6. Please submit your **Both files** with this naming convention ROLLNO\_SECTION\_LABNO.
7. Submit your lab on Google Classroom.

#### Problem: 1

(Marks = 5)

Write a c++ program to reverse an 1d array without using any other temporary array

#### Problem: 2

(Marks = 5)

Write a C++ program to find the intersection of two integer arrays (common elements) and store that common elements in another array. Display the final array

#### Problem: 3

(Marks = 5)

Implement a C++ program that checks whether an array is a palindrome (reads the same forwards and backwards).

#### Problem: 4

(Marks = 5)



Create a program that checks if an array is sorted in non-descending order (ascending order).

<b>Problem: 5</b>	<b>(Marks = 5)</b>
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Create a program that takes a character array as input and convert the first letter of the word to capital letter

i.e

input : this is demo

output should be

This Is Demo

<b>Problem: 6</b>	<b>(Marks = 5)</b>
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Write a C++ program to check if all the previous and next number in array has difference of exactly 1(can be both in positive or negative) . print all numbers that donot have difference of 1

i.e

array = 1 2 3 2 5 4 6

in this case

output will be 5 and 6