

Ghulam Ishaq Khan Institute of Engineering Science and Technology
Faculty of Computer Science and Engineering

LAB 1
(Fall 2023 Semester)

Course: Datastructures and Algorithms
Course Code: CS221L

Max Marks: 10

Instructor Name: Mr. Usama Arshad

Task 1:

Write a program to swap two values. Use the concept of call by pointer.

Task 2:

Sum all the elements of an integer array using the concept of pointer.

Task 3:

Using the concept of the dynamic array, prompt the user to enter the size of the array, prompt the user to enter the elements of the array, and then show the array elements in reverse order.

Task 4:

Write a structure to store the roll no., name, age (between 11 and 14) and address of students (more than 10). Store the information of the students.

- 1 - Write a function to print the names of all the students having age 14.
- 2 - Write another function to print the names of all the students having even roll no.
- 3 - Write another function to display the details of the student whose roll no is given (i.e. roll no. entered by the user).