

## **Lab Exercise 5**

### **Question 1:**

Write a program to create a list of students with their scores. Use an appropriate data structure and explain the reason for the choice. Demonstrate the difference between a map and a multimap.

### **Question 2:**

- a) Write a recursive program to compute  $n!$
- b) Write a recursive program to print the Fibonacci sequence.

### **Question 3:**

Write a program to enter a list of integers in any order. Use an appropriate data structure to store the values. The program should then print the numbers in a sorted manner without using a `sort()` method.

### **Question 4:**

Write a program to store the person's details. This should be used as a key to retrieve his Date of Birth. Use appropriate data structure.