1. Write a C++ code to implement Bubble Sort

2. Write a C++ Program for Binary Search Implementation

3.Implement a program to sort the elements in a Linked List

4.Write a function that takes a 2D array of strings and returns a new array containing only the strings that have a length of 4 or less.

5.Write a program that takes two 2D arrays of integers, each with the same number of rows and columns, and returns a new 2D array that is the element-wise sum of the two input arrays.

6.Write down a code to implement linear search.

7. Write a C++ code to implement following Linked List operations:

a. traversal

b. Insertion

c. Searching

d. Deletion

8.Write a program that takes two 2D arrays of integers, each with the same number of rows and columns, and returns a new 2D array that is the element-wise sum of the two input arrays.

NB: question 1-8 computer based; however, you need to attach required output. softcopy submission deadline 11 March 2023 by 11:59 pm. A viva will be taken on assignment on 12/3/23 during the class. Bring hardcopy of assignment during viva on 12/03/23.