Barrackpore Rastraguru Surendranath College
Department of Computer Science
B.Sc. Computer Science Hon's Semester III
Laboratory Assignments
Paper: CMSACOR05P (Data Structures Lab)

1. Write a program to search an element from a given array using

    a) Linear Search method.

    b) Binary Search method.

2. Write a program to sort an array using

    a) Bubble Sort method

    b) Selection Sort method

    c) Insertion Sort method

3. Write a program to implement stack using array.

4. Write a program to implement all the operations of single link list.

5. Write a program to implement queue using link list.

6. Write a program to create a Binary Search Tree (BST).

7. Write a program to implement Lower Triangular Matrix using one-dimensional array.

8. write a program to implement Symmetric Matrix using one-dimensional array.

9. Recursion-

    a) Write a program to calculate factorial and to compute the factors of a given no. using recursion.

    b) Write a program to display Fibonacci series using recursion.