

PRACTICAL ASSIGNMENT QUESTIONS

Subject : CSA 5004P DATA STRUCTURE AND ALGORTTHMS LABORATORY

Assignment 1:

1. Find maximum and minimum value in 1D array.
2. Write a program to perform linear search in 1D array.
3. Write a program to perform binary search in 1D array.
4. Perform following operation in 1D array using switch case.
 - a. Input array elements
 - b. Add new element
 - c. Delete element
 - d. Insert new element at given position

Assignment 2:

5. Write a program to perform bubble sort
6. Write a program to perform insertion sort
7. Write a program to perform selection sort

Assignment 3:

8. Implement Stack using array and perform following operations
 - a. Push
 - b. Pop
 - c. IsEmpty
9. Implement Queue using array and perform following operation
 - a. Enqueue
 - b. Dequeue
 - c. IsEmpty

Assignment 4:

10. Implement linked list insert 5 nodes and print all elements.
11. Implement linked list and perform following operations
 - a. Insert Node
 - b. Delete Node
 - c. Print List

Assignment 5:

12. Perform traversing (pre-order, in-order and post-order) in tree.
13. Perform traversing (BFS & DFS) in graph.