1. Write a program to search an element in an array using linear search. Take input an array and search an element from the user.

2. Write a program to search an element in an array using binary search. Take input an array and search an element from the user.

3. Write a program to search an element in an array using linear search. Take input an array and search an element from the user.

4. Write a program to sort an array using bubble sort. Take input an array from the user.

5. Write a program to sort an array using insertion sort. Take input an array from the user.

6. Write a program to sort an array using selection sort. Take input an array from the user.

7. Write a program to sort an array using merge sort. Take input an array from the user.

8. Write a program to sort an array using quick sort. Take input an array from the user.

9. Write a program to create a stack using array. Take input an array from the user. Perform all the stack operations.

10. Write a program to create a stack using linked list. Take input an array from the user. Perform all the stack operations.

11. Write a program to create a queue using array. Take input an array from the user. Perform all the queue operations.

12. Write a program to create a queue using linked list. Take input an array from the user. Perform all the queue operations.

13. Write a program to create a singly linked list. Perform the following operations on created linked list.
    a) Insertion at the beginning
    b) Deletion at the end
    c) Display linked list

14. Write a program to create a singly linked list. Perform the following operations on created linked list.
    a) Insertion at the end
    b) Deletion at the beginning
    c) Display linked list

15. Write a program to create a singly linked list. Perform the following operations on created linked list.
    d) Insertion at the any position
    e) Deletion at the any position
    f) Display linked list

16. Write a program to create a doubly linked list. Perform the following operations on created linked list.
a) Insertion at the beginning
b) Deletion at the end
c) Display linked list

17. Write a program to create a doubly linked list. Perform the following operations on created linked list.
a) Insertion at the end
b) Deletion at the beginning
c) Display linked list

18. Write a program to create a doubly linked list. Perform the following operations on created linked list.
a) Insertion at the any position
b) Deletion at the position
c) Display linked list

19. Write a program to create a circular linked list and display it.

20. Write a program to create binary tree and perform all traversing techniques.

21. Write a program to create BST and perform all traversing techniques.

22. Write a program to create a singly linked list. Perform the following operations on created linked list.

a) Insertion at the end
b) Deletion at the any position
c) Display linked list

23. Write a program to create a singly linked list. Perform the following operations on created linked list.

a) Insertion at the any position
b) Deletion at the beginning
c) Display linked list

24. Write a program to create a singly linked list. Perform the following operations on created linked list.

a) Insertion at the any position
b) Deletion at the end
c) Display linked list

25. Write a program to create a singly linked list. Perform the following operations on created linked list.

d) Insertion at the beginning
e) Deletion at the any position
f) Display linked list

26. Implement Deque using array. Perform following operations:
    a) Insert at beginning
    b) Delete at end
    c) Display Deque

27. Implement Deque using array. Perform following operations:
    a) Insert at end
    b) Delete at beginning
    c) Display Deque

28. Write a program to create priority queue and display its data.

29. Write a program to create descending priority queue and display its data.

30. Write a program to convert infix expression into postfix expression.

31. Write a program to convert infix expression into prefix expression.

32. Write a program to create graph and traverse it using BFS.

33. Write a program to create graph and traverse it using DFS.