List of Programs

1. Write a program to search an element using Linear Search.
2. Write a program to search an element using Binary Search.
3. Write a program to sort the given array using Bubble Sort.
4. Write a program to sort the given array using Selection Sort.
5. Write a program to sort the given array using Insertion Sort.
6. Write a program to sort the given array using Quick Sort.
7. Write a program to sort the given array using Merge Sort.
8. Write a program to insert a new element in the given unsorted array at kth position.
9. Write a program to delete an element from given sorted array.
10. Write a program to merge to given sorted arrays.
11. Write a program to implement Stack using array, also show overflow and underflow in respective push and pop operations.
12. Write a program to implement Queue using array, which shows insertion and deletion operations.
13. Write a program to implement Circular Queue using array, which shows insertion and deletion operations.
14. Write a program to implement Linear Linked List, showing all the operations, like creation, display, insertion, deletion and searching.
15. Write a program to implement Stack, using Linked List. Implement Push, Pop and display operations.
16. Write a program to implement Queue, using Linked List. Implement Insertion, deletion and display operations.
17. Write a program to count the number of times an item is present in a linked list.
18. Write a program to increment the data part of every node present in a linked list by 10. Display the data both before incrimination and after.
19. Write a program to implement Doubly Linked List, showing all the operations, like creation, display, insertion, deletion and searching.
20. Write a program to create a Binary Search Tree and display its contents using recursive preorder, postorder and inorder traversal.
21. Write a program to implement deletion of a node in binary search tree.
22. Write a program to implement Binary tree and display the contents using preorder, postorder and inorder traversal techniques.
23. Write a program to sort the given array using HeapSort.
24. Write a program of Graph traversal-Depth first search and Breadth first search.
25. Write a program to implement Prim’s algorithm.
26. Write a program to implement Kruskal algorithm.
27. WAP to check whether a matrix is a sparse matrix or not.
28. WAP to implement all the basic array operations.
29. **Q2) Write a program to merge two sorted arrays.**
30. **Q2) Write a program to perform following operations in a stack:**
    1. **check for overflow condition**
    2. **check for underflow condition**
    3. **print all the elements**
    4. **print first and last element**
31. **Q3) Write a program to create a stack that can hold letters. Perform various operations like PUSH, POP, PEEK and TRAVERSE. Also check overflow and underflow condition.**