Assinment-2

1. Write a program to perform Push, Pop, and Peek operations on a stack.
2. Write a program to implement a linked stack.
3. Program for conversion of infix to postfix and evaluation of postfix.
4. Write a program to convert an infix expression to a prefix expression.
5. Write a program to implement a linear queue.
6. Write a program to implement a circular queue.
7. Write a program to implement a linked queue.
8. Write a program to implement input and output restricted deques.
9. Write a program to implement a priority queue.
10. Write a C Program of reversing a string using stack**.**
11. Write a C program that uses functions to perform the following:
    Create a singly linked list of integers. b) Delete a given integer from the above linked list. c) Display the contents of the above list after deletion.
12. Write a c program of sorting a single linked list.
13. Write a program to merge two sorted linked lists. The resultant list must also be sorted.
14. Write a c program to concatenate two single linked lists.
15. Write a program to add the values of the nodes of a linked list and then calculate the mean.
16. Write a program that prints minimum and maximum values in a linked list that stores integer values.
17. Write a C Program to delete all duplicates from an unsorted single linked list.
18. Write a C program that uses functions to perform the following: a) Create a doubly linked list of integers. b) Delete a given integer from the above doubly linked list. c) Display the contents of the above list after deletion.
19. Write a program to create a circular Single linked list. Perform insertion and deletion at the beginning and end of the list.
20. Write a program to create a circular doubly linked list and perform insertions and deletions at the beginning and end of the list.
21. Write a program to implement heap sort algorithm.
22. Write a program to implement merge sort.
23. Write a program to implement quick sort algorithm.
24. Write a program to implement radix sort algorithm.
25. Write a program to implement pre order inorder and post order traversal in binary search tree.
26. Write a program to implement insert and delete node in binary search tree.
27. Write a program to implement Fractional Knapsack
28. Write a program to implement **MST.**
29. Write a program to determine Single source shortest path from the source to the destination.