**Data Structures Practical List (2024-25)**

1. Write a program to implement Selection Sort algorithm.
2. Write a program to implement Bubble sort algorithm.
3. Write a program to implement Insertion sort.
4. Write a program to implement Merge sort.
5. Write a program to implement Quick sort
6. Write a program to implement Linear and Binary Search.
7. Write a Program to implement following operations on Singly Linked List:

i) Insertion after a given node

ii) Deletion after a given node

iii) Search a given value

1. Write a Program to implement Parenthesis Checker using Stack.
2. Write a program to convert Infix expression to Postfix expression.

1. Write a program to implement Circular Queue using array.
2. Write a Program for Inorder, Preorder, Postorder and Level order traversal techniques.
3. Write a program to implement Linear and Quadratic Probing
4. Write a program to implement Linear Probing and Double Hashing
5. Find the Winner of the Circular Game using Queue using LeetCode platform.
6. Write a program to implement stack using array and perform various operations on it.
7. Write a program to implement queue using array.
8. Write a program to perform merging of two sorted Link Lists. (SLL)
9. Validate the correctness of parenthesis using LeetCode platform.
10. Write a program to implement Merge sort.
11. Perform merging of two sorted Link Lists using LeetCode platform.
12. Write a Program to implement following operations on Singly Linked List:

i) Reverse the given link list

ii) Delete the first node

iii) Search a given value

22. Write a Program to implement following operations on Singly Linked List: (i) Sort the list

(ii) Delete the last node

(iii) Insert a node before a given value