LAB Assignment 1

1. WAP menu driven program to implement array operations
2. WAP to implement array operations (static)
    a. Without using function. b. Using pointer and function
3. WAP using stack to convert infix expression to postfix.
4. WAP using stack to convert infix expression to prefix expression.
5. WAP using stack to evaluate postfix/prefix expression.
6. WAP to implement queue operations
    a. Without using function b. Using pointer and function
7. WAP to implement Circular queue operations
    a. Using pointer and function
8. WAP to implement operations in priority queue.
9. Write a menu driven program to illustrate basic operations of **Singly Linked list** with following operations:
    i. Insert at first
    ii. Insert at last
    iii. Insert at nth position
    iv. Delete from first
    v. Delete from last
    vi. Delete from nth position
    vii. Traverse all the nodes
    viii. Search any value
10. Write a menu driven program to implement **Circular Linked List** with the operations defined in question 5.
11. Write a menu driven program to implement **Doubly Linked List** with the operations defined in question 5.
12. Write a menu driven program to implement **Doubly circular Linked List** with the operations defined in question 5.
13. Writing recursive programs to implement factorial of a given number.
14. WAP to implement Fibonacci sequence, GCD.
15. WAP to implement Tower of Hanoi algorithms with n number of disk.

Lab Assignment2

1. Writing programs to implement
    - Bubble sort
    - Insertion sort
    - Merge sort and
    - Quick sort
2. Write a program to implement
    a. Sequential search
    b. Binary search

3. Write a program to implement collision resolution technique
    a. Linear probing
    b. Double hasing
4. Write program to implement
    a. Binary Search Tree and
    b. AVL Tree.
5. Write programs to implement
    a. Kruskals algorithm
    b. Prims algorithm
6. Write a program to implement Dijkstras algorithm.