

NETAJI SUBHASH ENGINEERING COLLEGE
DATASTRUCTURE & ALGORITHM LAB
AEIE 3rd YEAR 5th SEMESTER

1. Write a program to insert an element to a particular position of an array.
2. Write a program to delete an element from a particular position of an array.
3. Write a program to implement Tower of Hanoi problem.
4. Write a program to print Fibonacci series of n user given numbers using recursion
5. Write a program to print Factorial of n user given numbers using recursion.
6. Write a menu driven program to implement Push, Pop, Display operations in Stack using array.
7. Write a menu driven program to implement Insert, Delete, Display operations in Linear Queue using array.
8. Write a menu driven program to implement Insert, Delete, Display operations in Circular Queue using array.
9. Write a menu driven program to implement Insert, Delete, and Display operations in D-QUEUE using array.
10. Write a menu driven program programme to do the following operations on Single Linked List
 - a) Insert at beginning
 - b) Insert at a specified position
 - c) Insert at end
 - d) Delete the first node
 - e) Delete an element from a specified position
 - f) Delete the first node
11. Write a menu driven program programme to do the following operations on Circular Linked List
 - a) Insert at beginning
 - b) Insert at a specified position
 - c) Insert at end
 - d) Delete the first node
 - e) Delete an element from a specified position
 - f) Delete the first node

12. Write a menu driven program programme to do the following operations on Double Linked List
 - a) Insert at beginning
 - b) Insert at a specified position
 - c) Insert at end
 - d) Delete the first node
 - e) Delete an element from a specified position
 - f) Delete the first node

13. Write a menu driven program to implement Push, Pop, and Display operations in Stack using Linked List.

14. Write a menu driven program to implement Insert, Delete, and Display operations in Queue using Linked List.

15. Write a program to sort n numbers using the following Methods:
 - a) Bubble Sort.
 - b) Insertion Sort.
 - c) Selection Sort.
 - d) Quick Sort.
 - e) Merge Sort.
 - f) Shell Sort.

16. Write a program to perform the Linear Search operation in an array.

17. Write a program to search a particular element by Binary Search Method.

18. Write a program to search a particular element by Interpolation Search Method.

19. Write a c program to convert infix to postfix expression

Last date for sign: 20/11/2015(on or before)