K. J. Somaiya College of Engineering, Mumbai - 77

(A Constituent College of Somaiya Vidyavihar University)

Department of Electronics and Computer Engineering List of programs for DS OST exam

- 1 Write a C/C++ program to implement addition and subtraction of rational numbers using Abstract Data Type(ADT).
- 2 Write a C/C++ program to implement addition and subtraction of complex numbers using Abstract Data Type(ADT).
- 3 Write a C/C++ program to implement multiplication and equality check of rational numbers using Abstract Data Type(ADT).
- 4 Write a C/C++ program to implement multiplication and equality check of complex numbers using Abstract Data Type(ADT).
- 5 Write a C/C++ program to insert and delete a number from a given location in an array.
- 6 Write a C/C++ program to create and search a singly linked list.
- 7 Write a C/C++ program to create and delete circular linked list.
- 8 Write a C/C++ program to create a and delete doubly linked list.
- 9 Write a C/C++ program to create and delete a circular doubly linked list.
- 10 Write a C/C++ program to create and count the number of nodes in the singly linked list
- 11 Write a C/C++ program to create and search a particular number in singly linked list/circular linked list/circular doubly linked list/double
- 12 Write a C/C++ program to delete a particular node in linked list/circular linked list/circular doubly linked sort/doubly linked list.
- 14 Write a C/C++ program to implement stack operations (PUSH and PEEK] using array.
- 15 Write a C/C++ program to implement stack operations (PUSH and POP) using array.
- 16 Write a C/C++ program to implement stack operation (PUSH) using linked list.
- 17 Write a C/C++ program to reverse a list of given numbers using stack.
- 18 Write a C/C++ program to implement queue operations (insert and delete) using array.
- 19 Write a C/C++ program to implement queue operation (insert and delete) using linked list.
- 20 Write a C/C++ program to evaluate postfix expressions using stack .
- 21 Write a C/C++ program to implement parenthesis checker using stack.
- 22 Write a C/C++ program to implement Circular queue & operation (insert and delete) using array.
- 23 Write a C/C++ program to implement Priority queue & operation (insert and delete) using array.
- 24 Write a C/C++ program to implement Double Ended queue & operation (insert and delete) using array.
- 25 Write a C/C++ program to implement Circular queue & operation (insert and delete) using linked list.
- 26 Write a C/C++ program to implement Priority queue & operation (insert and delete) using linked list.
- 27 Write a C/C++ program to implement Double Ended queue & operation (insert and delete) using linked list.

NOTE: Display function needs to be implemented wherever required.