

Gujarat Vidyapith
Department of Computer Science

Sub.:MCA102- Data structure Student Reg.No.:_____ Year : 2024-25 Subject Teacher : Neepe Shah

No.	Problem Defination	Assignment Date	Submission Date	Sign Of T.A.	Sign of Teacher	Grade	Remark
1	Write menu driven program to implement operations on array. 1)Add 2) Delete 3) Modify 4) sort 5) simple search 6) binary search						
2	Write Menu driven program to implement operations of stack 1) Push 2) pop 3) peep 4) modify 5) display						
3	Write menu driven program to Implement Double stack 1) Push 2) pop 3) peep 4) modify 5) display						
4	Write program to convert infix expression to suffix expression using stack						
5	Write program to convert infix expression with parenthesis to suffix expression using stack						
6	Write menu driven program to Implement simple queue 1) insert 2) delete 3) modify 4) display						
7	Write menu driven program to Implement double queue 1) insert 2) delete 3) modify 4) display						
8	Write menu driven program to Implement circular queue 1) insert 2) delete 3) modify 4) display						

9	Write program to implement process queue						
10	Write program to implement priority queue						
11	Write menu driven program to implement operations of singly linked list of integer 1) insert 2)delete 3) modify 4) display						
12	Write menu driven program to implement operations of singly circular linked list of integer 1) insert 2)delete 3) modify 4) display						
13	Write menu driven program to implement operations of double circular linked list of student information 1) insert 2)delete 3) modify 4) display						
14	Write menu driven program to implement binary tree of integers. 1) insert 2) preorder traversal 3) inorder traversal 4) post order traversal						
15	Write menu driven program to implement binary tree of integers 1)iterative insert 2) iterative display 3) delete node containing given information						
16	Write menu driven program to implement threaded binary tree for inorder traversal						
17	Write a menu driven program to implement multilinked structure of matrix 1) create 2) display						
18	Write menu driven program to implement multilinked structure of matrix. 1) matrix addition 2) matrix multiplication						

19	Write menu driven program to implement adjacency list representation of graph1) create 2) BFS 3) DFS						
20	Write a menu driven program to implement best-fit storage allocation 1) allocation 2) free storage						
21	Write a program to implement merge sort						
22	Write a program to implement quick sort						
23	Write a program to implement radix sort						
24	Write a program to implement heap sort						
25	Write a program to implement address calculation sort sort						

Grade	Marks
A	18 - 20
B	14-17
C	11-13
D	8-10
E	5-7
F	1-4
S	Absent