

# CONTENTS

SI NO	PROGRAMS	PG NO
1	Program to implement basic operations on generic linear array	1
2	Program to implement Searching and Sorting on generic array	9
3	Program to implement Advanced array operations	25
4	Program to implement operations on generic Linked List	35
5	Program to implement operations on Circular, Doubly & Circular Doubly Linked List	41
6	Program to implement Addition and Multiplication of Polynomials using Linked List	72
7	Program to sort Linked List Music Playlist	80
8	Program to implement stack using an array	87
9	Program to implement stack using Linked List	93
10	Program to implement Queue using an array	99
11	Program to implement Queue using Linked List	105
12	Program to implement Double-ended Queue (DEQUE) using array	111
13	Program to implement Double-ended Queue (DEQUE) using Linked List	118
14	Program to implement 2 way stack	126

15	Program to convert infix expression to postfix and prefix	133
16	Program to evaluate postfix expression	138
17	Program to check Balanced Brackets in expression using stack	142
18	Program to implement recursion with stack	146
19	Program to implement Binary Tree using array	150
20	Program to implement Binary Tree using Linked List	154
21	Program to implement Binary Search Tree and perform Insertion, Deletion and Searching operations	160
22	Program to implement Level Order Traversal	168