

AJAY KUMAR GARG ENGINEERING COLLEGE GHAZIABAD

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

LIST OF EXPERIMENTS

COURSE : B.Tech **SEMESTER** : III **SESSION** : 2025-26 (ODD SEM)

BRANCH : CSE

SUBJECT CODE & NAME : BCS-351, DATA STRUCTURE USING C

S.No.	NAME OF EXPERIMENT
1	Write a program in C to implement operations like Insertion, Deletion and Reversing in an array.
2	Write a menu driven program in C to implement Insertion and Deletion in Linked list.
3	Write a program in C to implement stack using array.
4	Write a program in C to implement queue using array.
5	Write a program in C to implement circular queue using array.
6	Write a program in C to implement stack using linked list.
7	Write a program in C to implement queue using linked list.
8	Write a program in C to implement circular queue using linked list.
9	Write a program in C to implement Bubble sort.
10	Write a program in C to implement Selection sort.
11	Write a program in C to implement Insertion sort.
12	Write a program in C to implement Quick sort.
13	Write a program in C to implement Merge sort.
14	Write a program in C to implement Linear search.
15	Write a program in C to implement Binary search.
16*	Write a program in C to implement binary tree using linked list.

17*	Write a program in C to implement tree traversal using linked list.
18	Write a program in C to implement BFS using linked list.
19	Write a program in C to implement DFS using linked list.
20	Write a program in C to implement Tower of Hanoi.
21	Write a program in C to store polynomials and add them using arrays and Linklist.
22	Write a program in C to implement Graph Traversal.

* Additional Experiments