DSA PRACTICAL PROGRAMS – 24 QUESTIONS ONLY

SIMPLE LEVEL (8 Questions)

S1. Write a program to find the maximum element in an array.
S2. Write a program to perform linear search on an array.
S3. Write a program to sort an array using Bubble Sort.
S4. Write a program to sort an array using Insertion Sort.
S5. Write a program to count vowels in a string.
S6. Write a program to reverse a string.
S7. Write a program to implement Stack using array.
S8. Write a program to implement simple Queue using array.

MEDIUM LEVEL (8 Questions)

M1. Write a C program to perform Binary Search.
M2. Write a C program to insert and display elements in a singly linked list.
M3. Write a C program to insert a node at the front of a doubly linked list.
M4. Write a C program to traverse a circular linked list.
M5. Write a C program to convert an infix expression to postfix.
M6. Write a C program to evaluate a postfix expression.
M7. Write a C program to perform inorder traversal of a binary tree.
M8. Write a C program to implement circular queue.

HARD LEVEL (8 Questions)

H1. Write a C program to sort an array using Merge Sort.
H2. Write a C program to sort an array using Quick Sort.
H3. Write a C program to insert nodes in a BST and display inorder traversal.
H4. Write a C program to search a node in a BST.
H5. Write a C program to perform BFS traversal on a graph.
H6. Write a C program to perform DFS traversal on a graph.
H7. Write a C program to implement a hash table using linear probing.
H8. Write a C program to add two polynomials using linked lists.