LAB ASSIGNMENT

On

Design and Analysis of Algorithm

(ECS -552)

COLLEGE OF COMPUTING SCIENCES AND

INFORMATION TECHNOLOGY

TMU, MORADABAD

Session: 2024-25 (ODD Sem.)

Submitted To:

Mr. Mohit Kumar Mishra

Submitted By:

Student Name:

Course:

Enrollment No.:

ASSIGNMENT NO. – 01

S.NO	PROGRAM NAME	PAGE NO	DATE	SIGN	REMARK
1.	Write program in C++ to implement Linear Search				
2.	Write program in C++ to implement Binary Search				
3.	Write program in C++ to implement Bubble Sort.				
4.	Write program in C++ to implement Insertion Sort				
5.	Write program in C++ to implement Merge Sort				
6.	Write program in C++ to implement Quick Sort				
7.	Write program in C++ to implement Selection Sort.				
8.	Write program in C++ to implement heap Sort				
9.	Write algorithm and program in C++ to implement Counting Sort.				
10.	Write algorithm and program in C++ to implement Radix Sort.				

ASSIGNMENT NO. – 02

S.NO	PROGRAM NAME	PAGE NO	DATE	SIGN	REMARK
1.	WAP to implement Fractional KnapSack Problem				
2.	WAP to implement Integer KnapSack Problem				
3.	WAP to implement Matrix Chain Multiplication order.				
4.	WAP to implement Activity selector problem.				
5.	WAP to implement Longest Common Subsequence.				

ASSIGNMENT NO. – 03

S.NO	PROGRAM NAME	PAGE NO	DATE	SIGN	REMARK
1.	WAP to implement BFS.				
2.	WAP to implement DFS.				
3.	WAP to implement Minimum spanning tree using Kruskal's Algorithm..				
4.	WAP to implement Minimum spanning tree using Prim's Algorithm.				
5.	WAP to implement single source shortest path using Dikjastra's Algorithm.				

ASSIGNMENT NO. – 04

S.NO	PROGRAM NAME	PAGE NO	DATE	SIGN	REMARK
1.	WAP for n Queen problem				
2.	WAP for Hamiltonian circuit using Back tracking.				
3.	WAP for subset problem using Back tracking				
4.	WAP for TSP using Back tracking				
5.	WAP for TSP using Dynamic Programming				