

**THADOMAL SHAHANI ENGINEERING COLLEGE**  
**Experiment List**

**Subject: Analysis of Algorithm**  
**Academic year 2022-23**

**Branch: Computer**

**Semester: IV**

<b>Sr. No.</b>	<b>Topics</b>
1.	Implement <b>Insertion Sort</b> (show output after every pass)
2.	Implement <b>Selection Sort</b> (show output after every pass)
3.	Implement <b>Quick Sort</b> (Print number of calls to quick sort procedure)
4.	Implement <b>Merge Sort</b> (Print number of calls to merge sort procedure)
5.	Implement minimum spanning tree using <b>Prim's or Kruskal's</b> algorithm. (Print minimum cost and edges in MST)
6.	Implement <b>Fractional Knapsack</b> algorithm (print solution vector and total profit earned)
7.	Implement <b>Longest Common Subsequence</b> (Print length and characters in LCS)
8.	Implement All Pair Shortest Path using <b>Floyd Warshall Algorithm</b> (Print final D and Pi matrix, Print path between every pair of vertices)
9.	Implement <b>N Queen Problem</b> . (print output in 1d and 2d format and print total number of calls to queen procedure)
10.	Implement <b>Sum of Subset Problem</b> (Print total number of calls to Sum of Subset procedure)
11.	Implement <b>String Matching Algorithm using KMP or Rabin Karp Method</b> (Print all occurrences of string)