

### **Assignment 13**

1. Write a C program to implement an AVL tree and perform insertion/Deletion/Search operations.
2. Write a C program to find minimum, maximum and Kth minimum element in an AVL tree.
3. Write a program to implement Kruskal's algorithm for finding the Minimum Spanning Tree (MST) of a graph and display the cost of the MST.
4. Write a program to implement Prim's algorithm for finding the Minimum Spanning Tree (MST) of a graph and display the cost of the MST.
5. Write a C program to perform Depth First Search (DFS) on a graph.
6. Write a C program to perform Breadth First Search (BFS) on a graph.
7. Write a C program to find the shortest path from a source node to all other nodes in an unweighted graph using BFS.
8. Write a C program to implement Dijkstra's algorithm for finding the shortest path from a source to all vertices in a weighted graph.