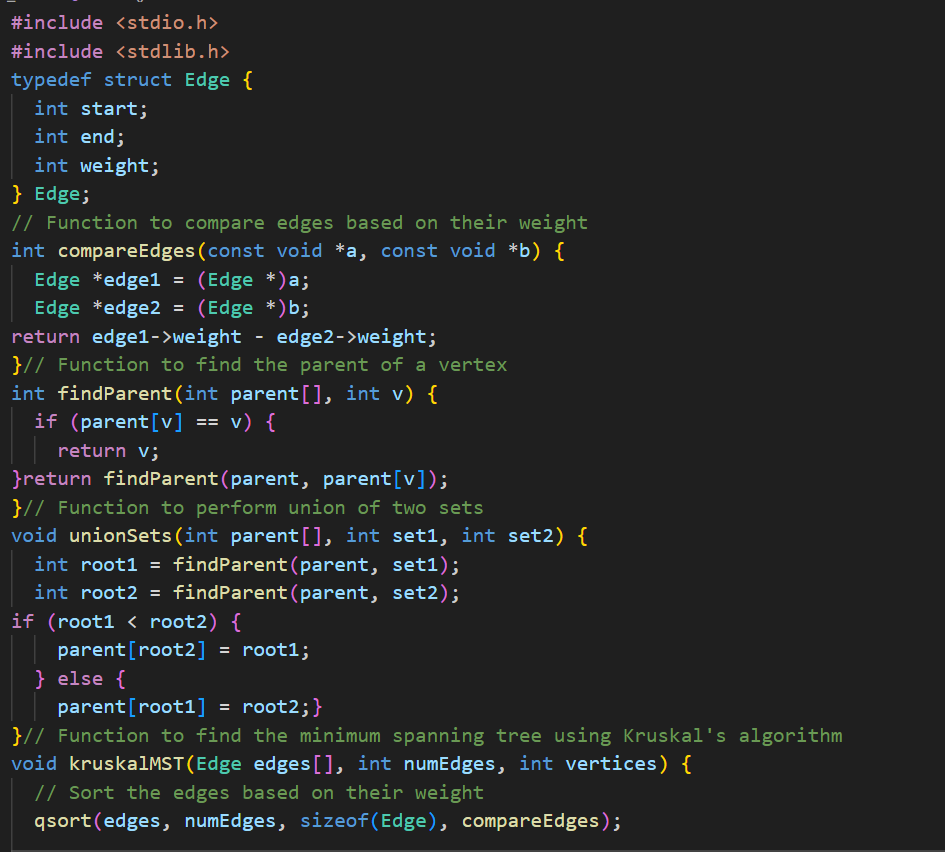
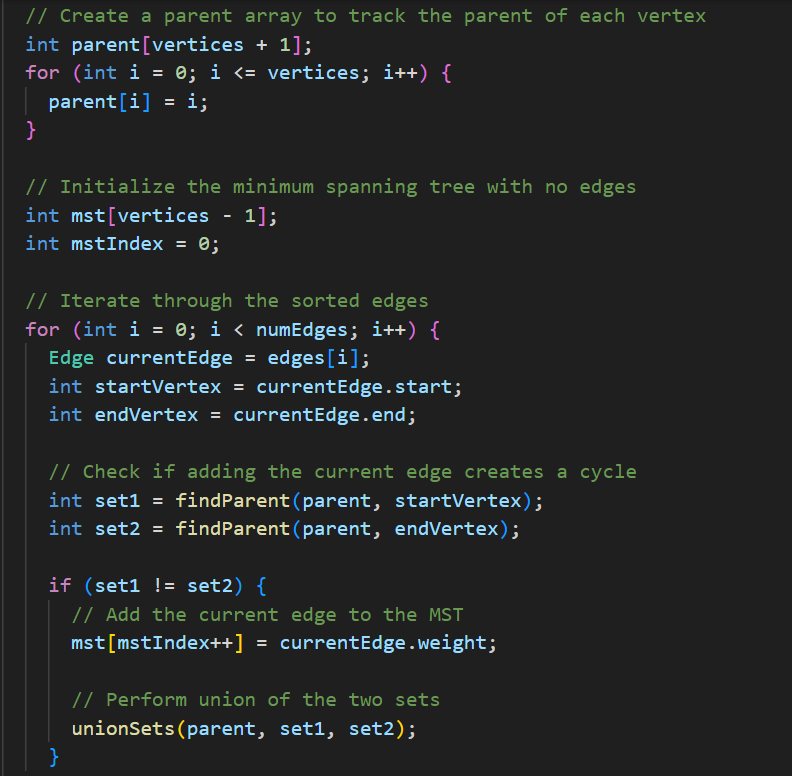
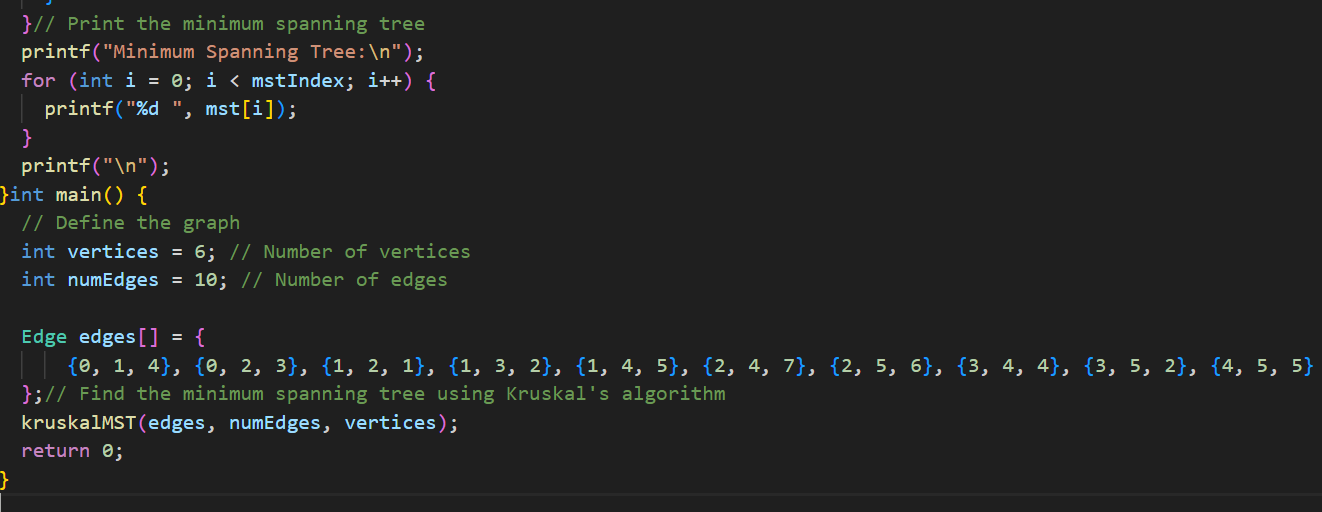
**EXPERIMENT-5: Title: Graph Algorithms**

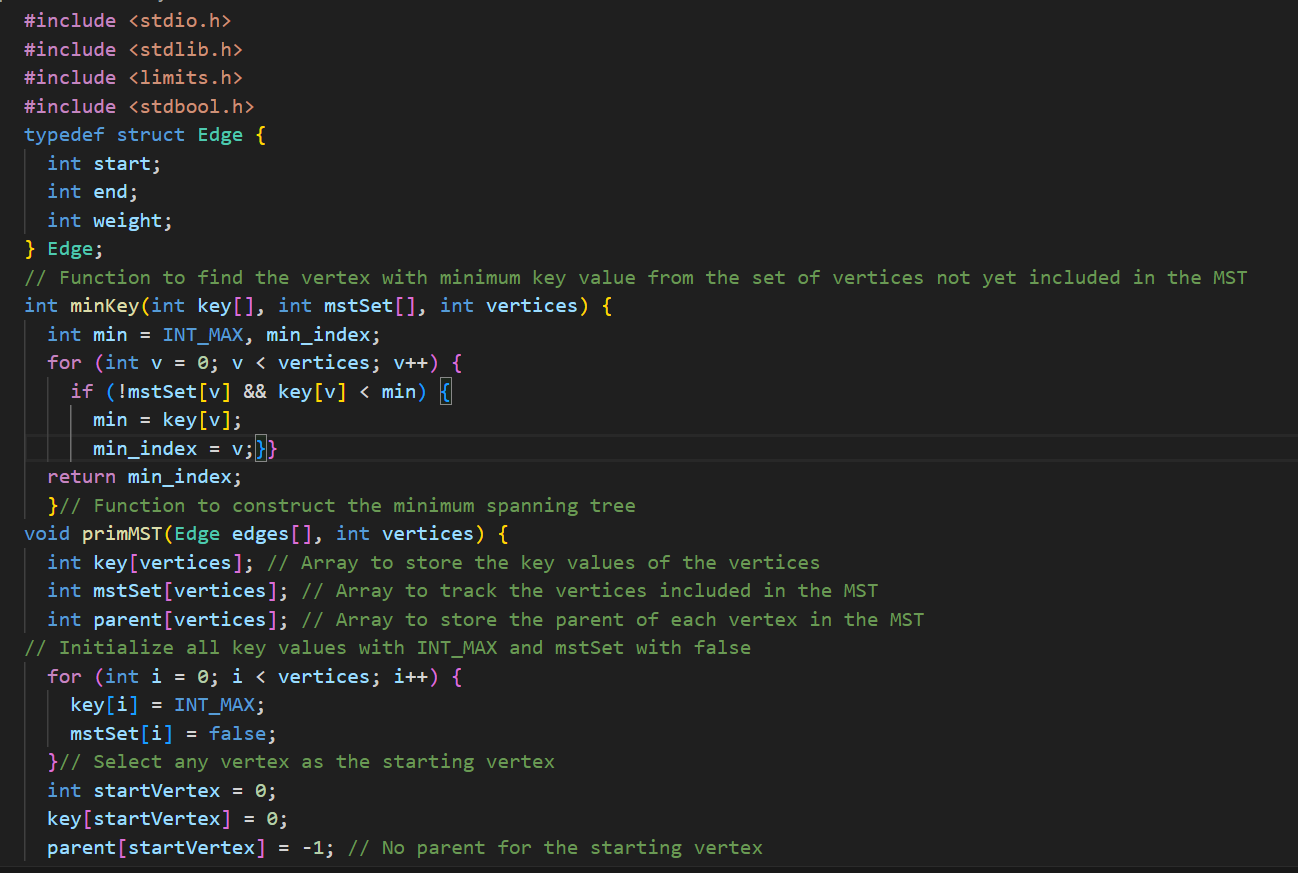
1. Find Minimum Cost Spanning Tree of a given undirected graph using Kruskal’s algorithm

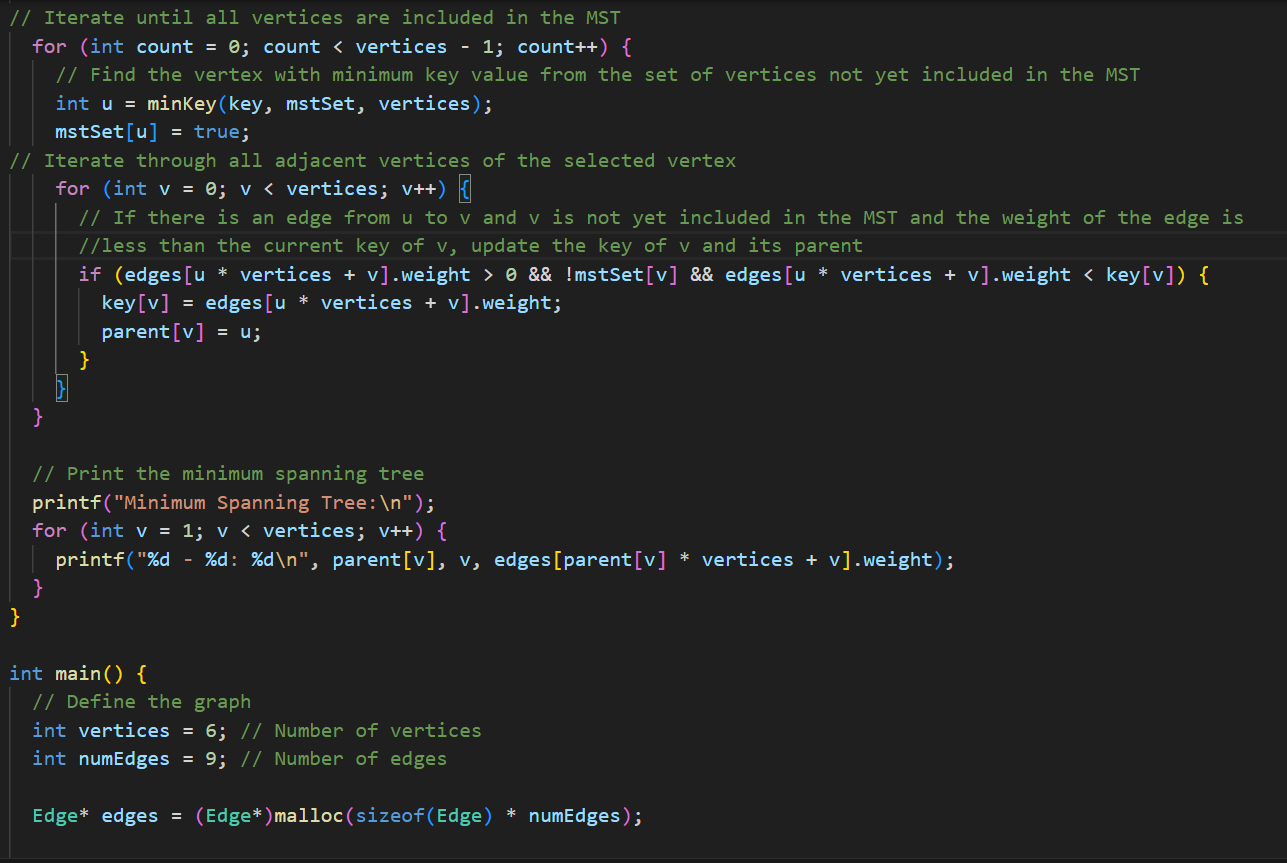


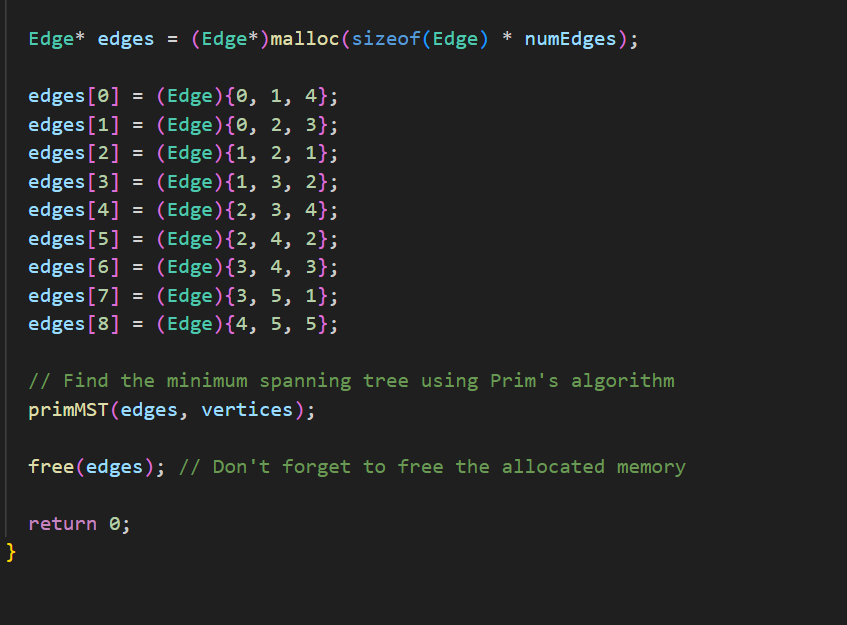




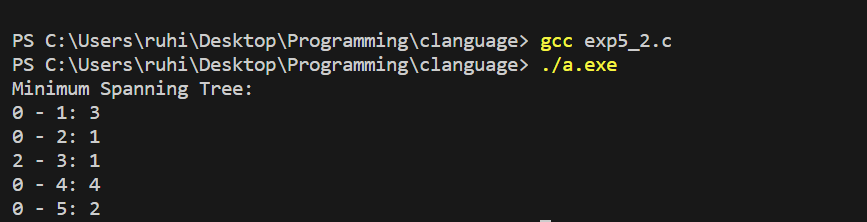
2. Find Minimum Cost Spanning Tree of a given undirected graph using prim's algorithm.



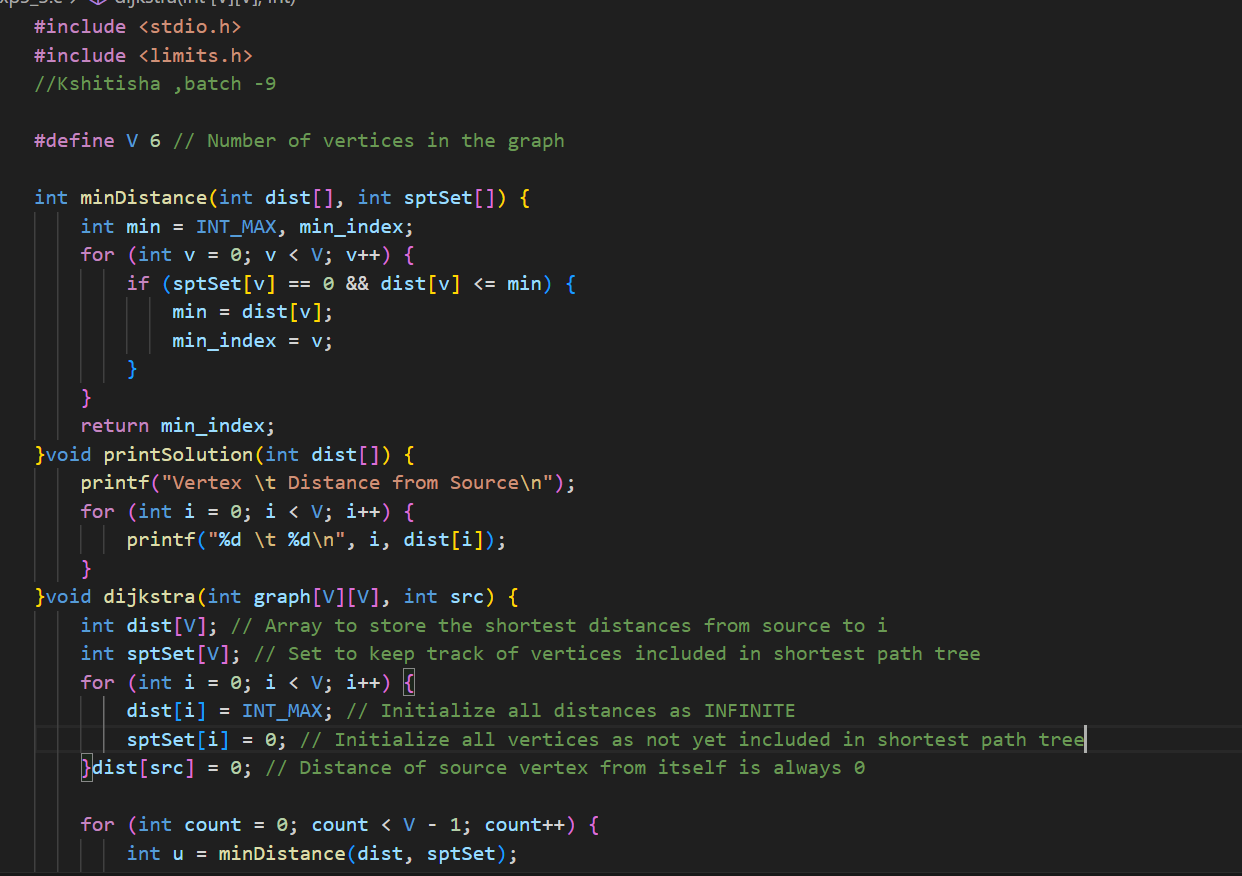


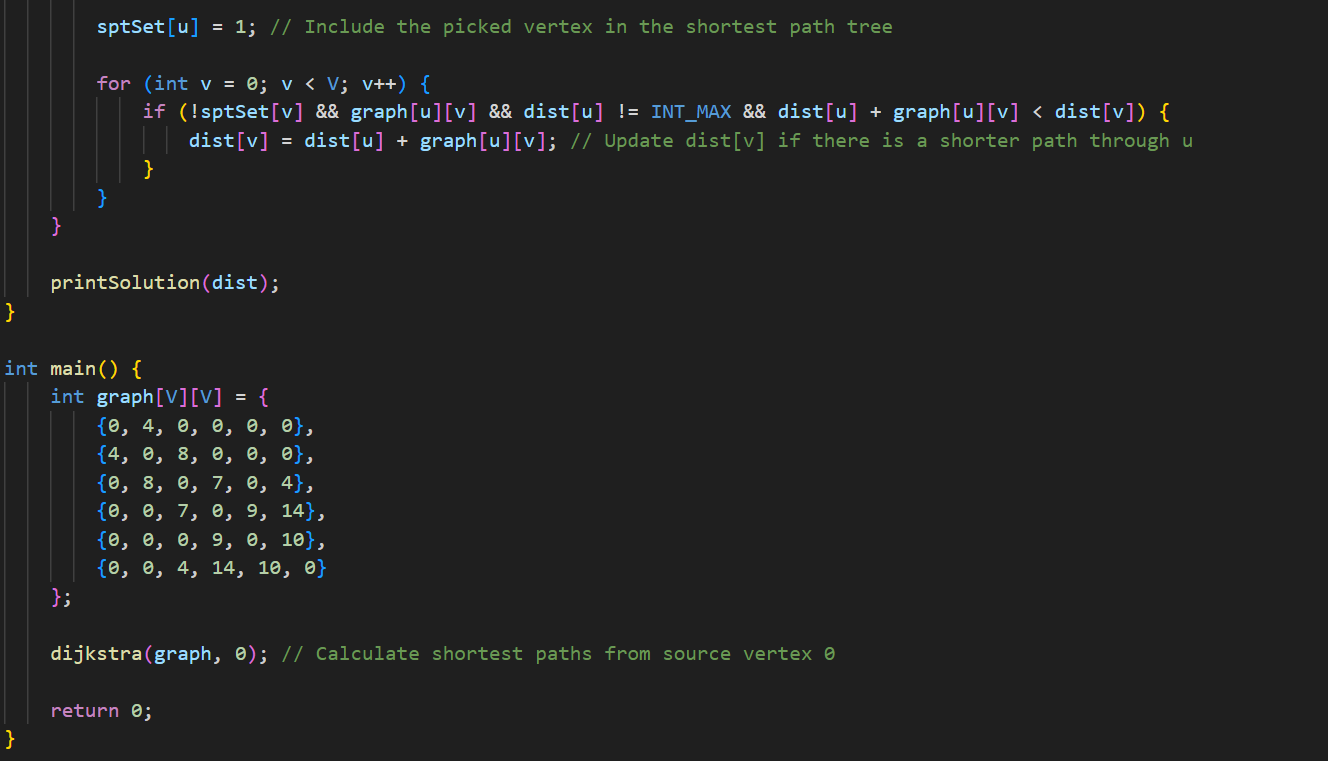


Output:-

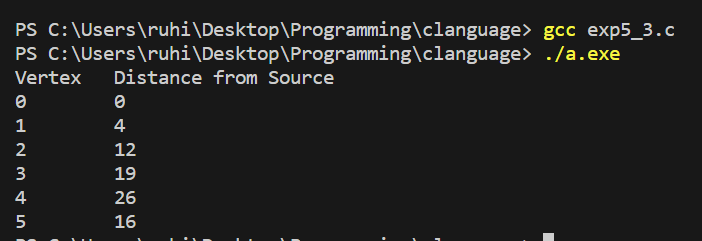


3.From a given vertex in a weighted connected graph, find shortest paths to other vertices using Dijkstra's algorithm

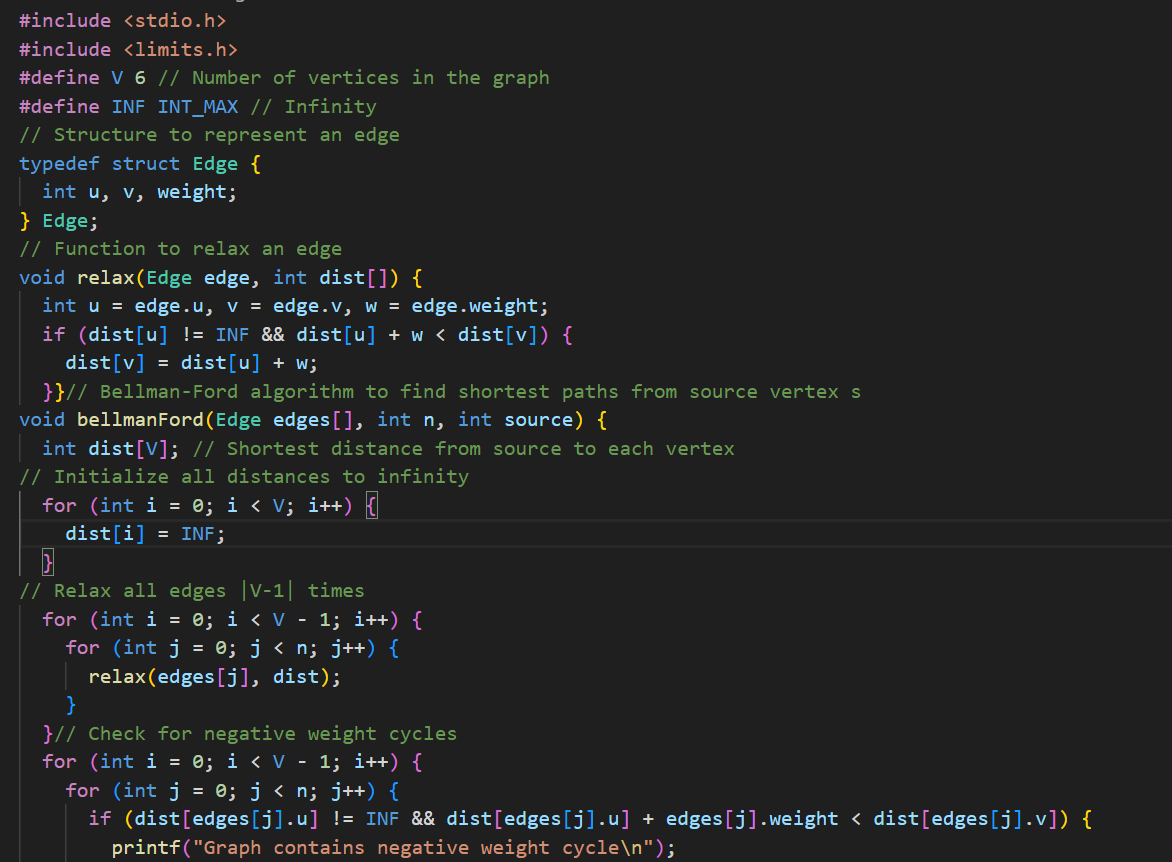


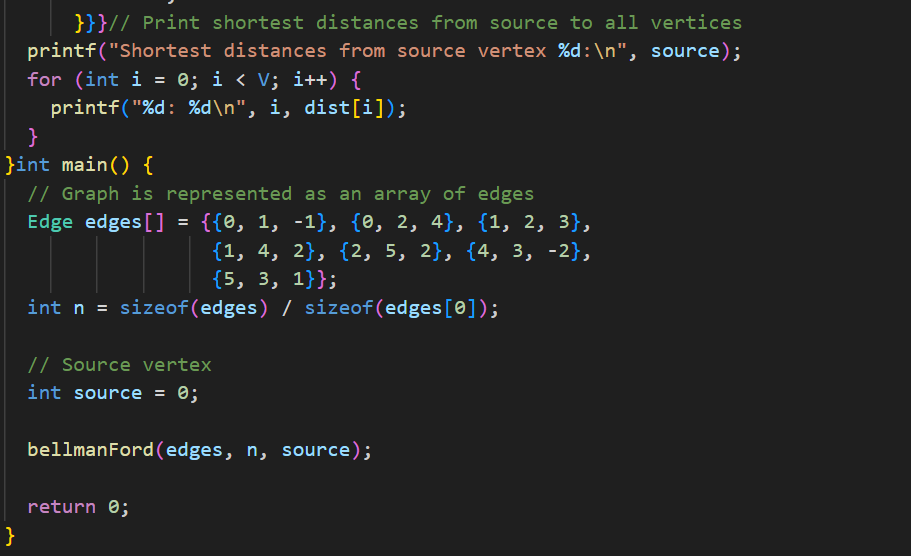


Output:

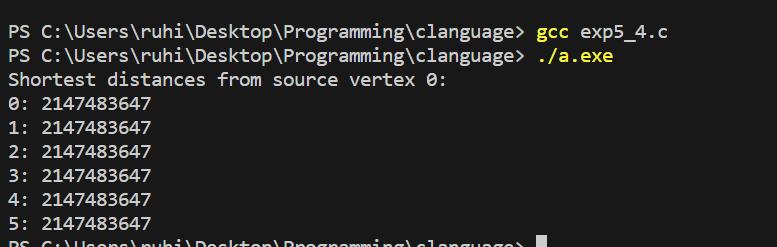


4. From a given vertex in a weighted connected graph, find shortest paths to other vertices negative weights (using Bellman-Ford algorithm).

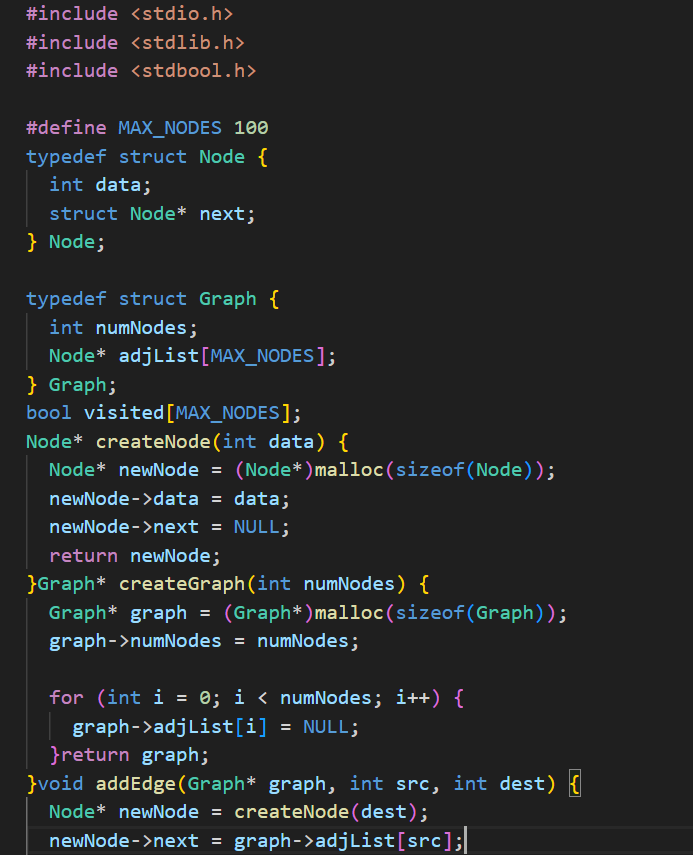




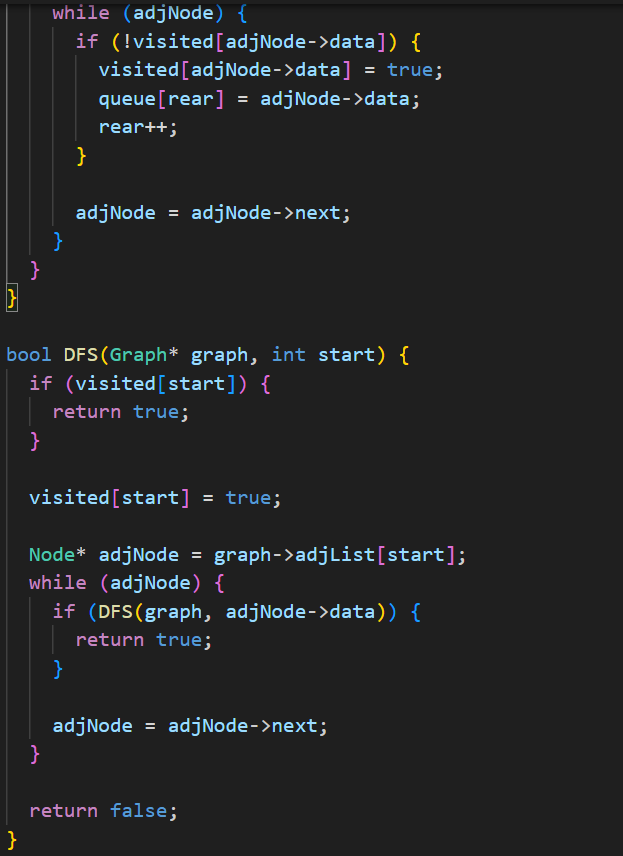
Output:

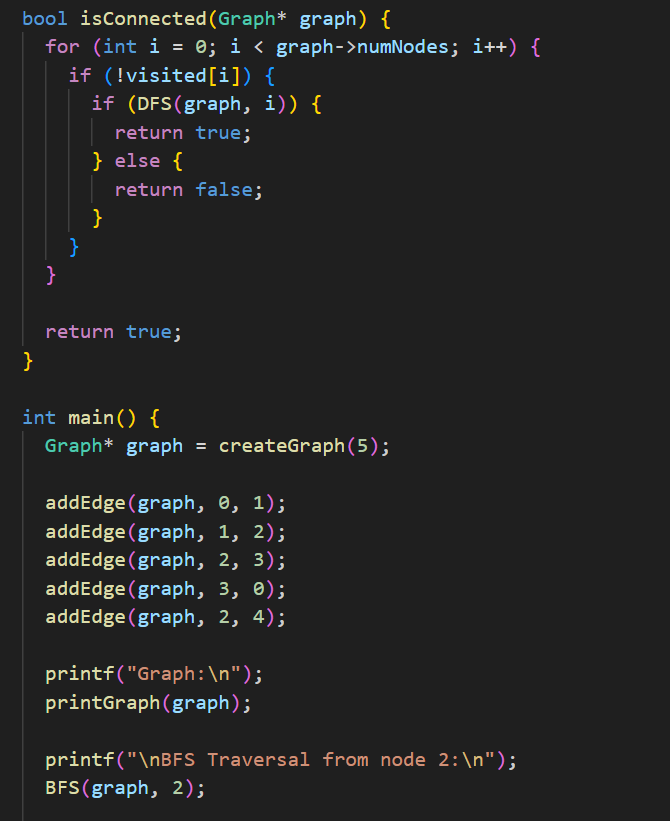


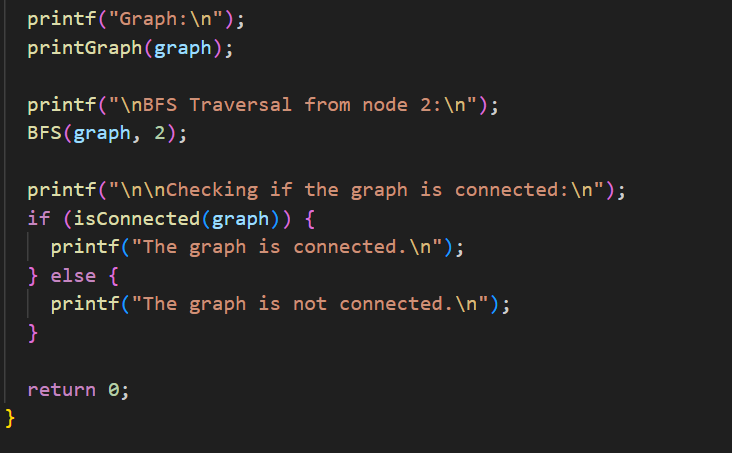
5. Print all the nodes reachable from a given starting node in a digraph using BFS method. Check whether a given graph is connected or not using DFS method.











Output

