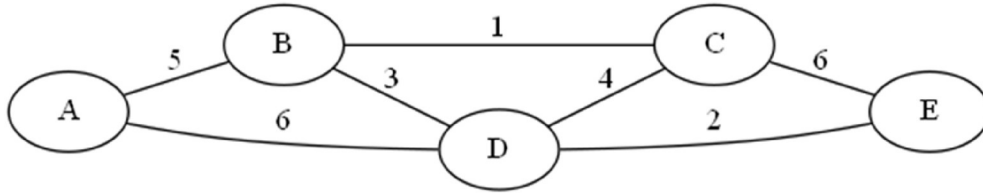
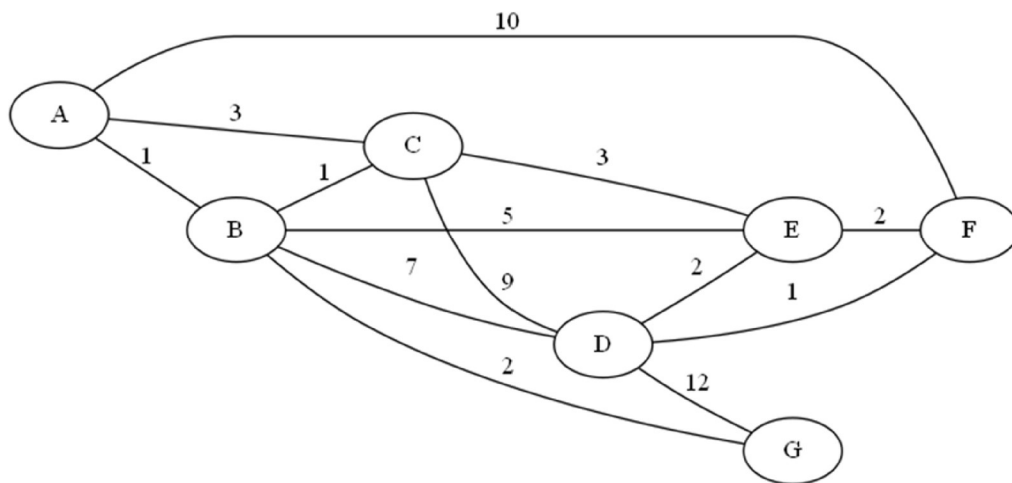


1. Apply Kruskal's algorithm to find the minimum spanning tree. Show all the steps of your work and give the value that you obtained for the minimum spanning tree. **[15]**



2. Use Dijkstra's algorithm to find the shortest path between nodes A and F. (Start at A, end at F). Show all the steps of your work. **[15]**



3. Apply Floyd Warshall Algorithm to find the all-pair shortest path from the following graph. Mention the shortest path for each vertex to every other vertex. Also Find the transitive closure of the graph **[20]**

