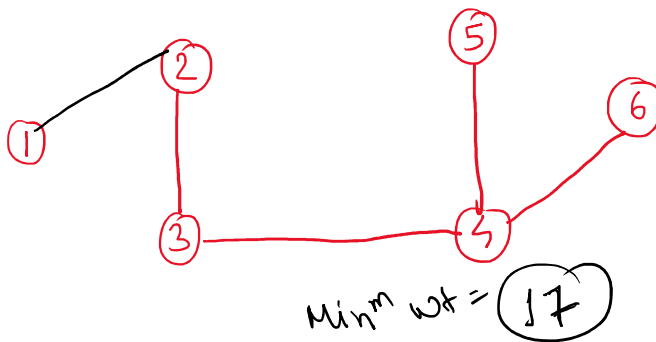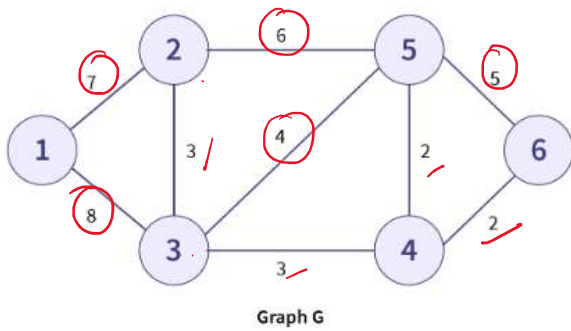Kruskal's algorithm is a greedy algorithm in graph theory that is used to find the Minimum spanning tree.
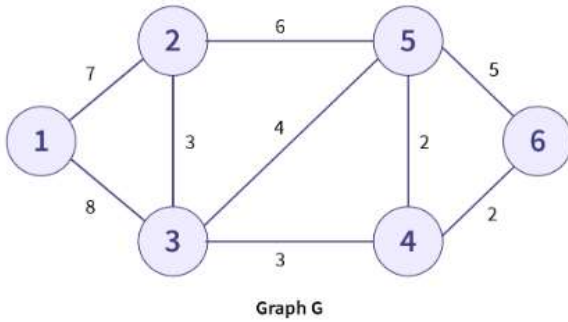
Graph G

- Sort all the edges of the graph in ascending order of their weights.
- Check the edge with minimum weight; if including it in the answer forms a cycle discard it, otherwise include it in the answer.
- Repeat the above step until we have chosen $V - 1$ edges.

Graph G

Node From	Node To	Weight
✓ 4	6	(2)
✓ 4	5	(2)
✓ 3	4	(3)
✓ 3	2	(3)
✗ 3	5	4 (Cycle)
✗ 5	6	5 (cycle)
✗ 2	5	6 (cycle)
✓ 1	2	(7)
1	3	8 ✗

Min^m wt = (17)