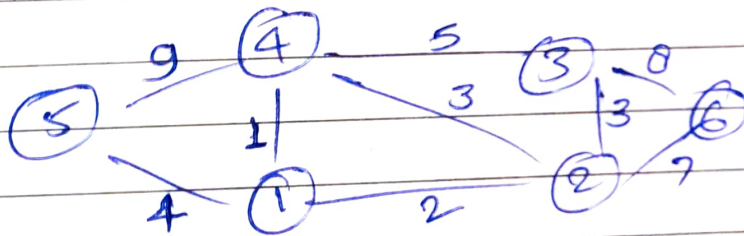


Kruskal Algo

Step - I sort all edges according to weight

Ex \Rightarrow



(wt, u, v)

1, 1, 4 ✓

2, 1, 2 ✓

3, 4, 2 ✓

3, 3, 2 ✗

4, 5, 1 ✓

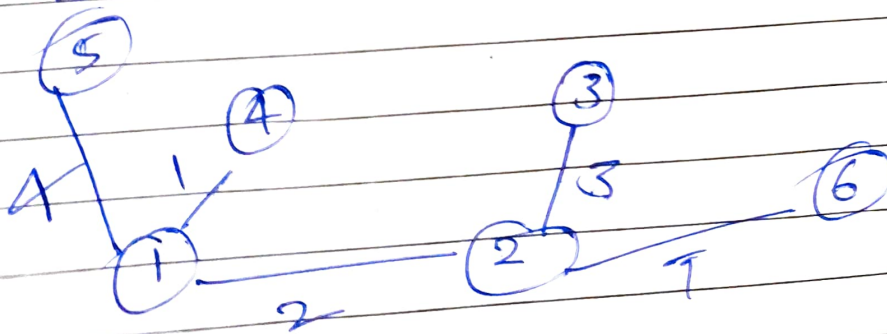
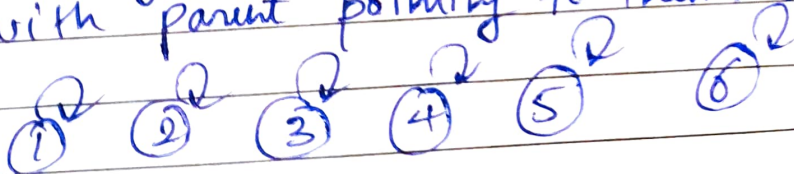
5, 4, 3 ✗

7, 2, 6 ✓

8, 3, 6 ✗

9, 4, 5 ✗

Initially all nodes will be isolated with parent pointing to themselves.



$$wt = 1 + 2 + 3 + 7$$

(Note Union will be done iff ultimate parent of u & v comes out to be different.)