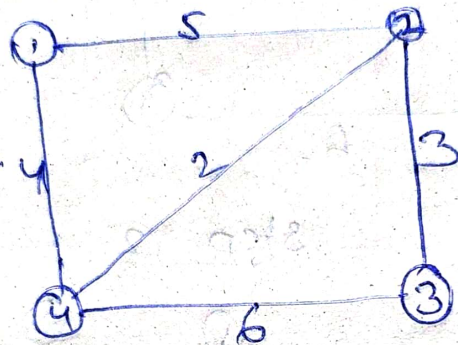
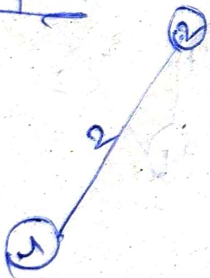


Kruskal's Algorithm's

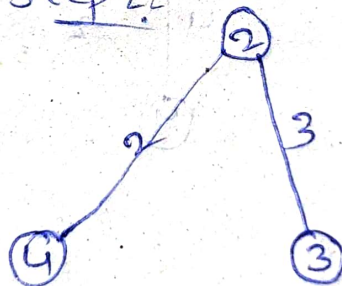
- * It builds the MST by considering all edges in increasing order of weight.
- * It adds an edge to the MST as long as it doesn't create a cycle.



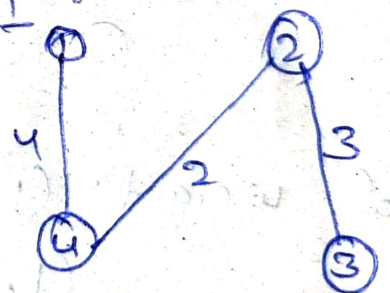
step 1:



step 2:



step 3:



Total weight: $(4-2) = 2$

$(4,2-3) = 3$

$(1-4,2,3) = 4$

Total = 9