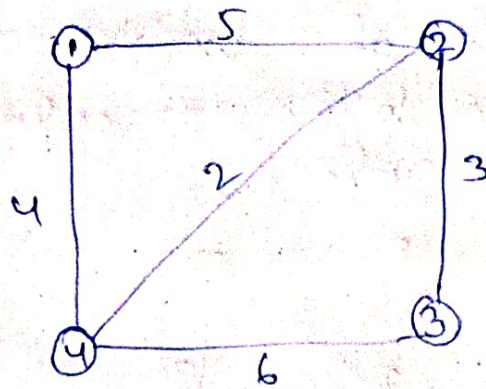
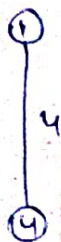


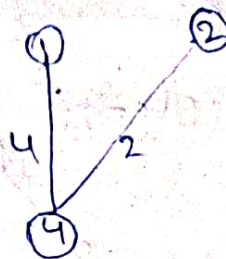
Prim's Algorithm: It is a greedy algorithm used to find MST  $\rightarrow$  Minimum spanning Tree for a weighted, undirected graph.



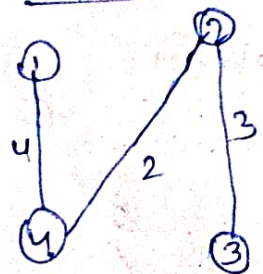
Step 1:



Step 2:



Step 3:



Total weight:  $(1-4) \rightarrow 4$   
 $(1,4-2) \rightarrow 2$   
 $(1,4,2-3) \rightarrow 3$   
 Total = 9

~~Kruskal's~~  
 Note:-

It starts with a single node and progressively adding the shortest edge that connects the current tree to a vertex not yet in tree.