Step: Sort all the Edges of graph based on their weights

① The Edge with min weight is added to Empty Tree.

② next smaller edges are considered & is added to existing tree only it doesnot forms the cycle

③ If the addition of any edges to the existing tree results in cycles, such edges are ignored.

④ The above steps are continued till the tree contains all vertices of a graph

Drawback of Kruskal's

① Even Though kruskal algorithm seems to be simple then prims alg it is not fast as prims because in kruskal in each steps while adding new Edges to tree we should check the new edges forms the cycle or not.

② unlike prims algorithm the intermediate steps of kruskal Alg may lead to disconnected Edges.

Time complexity $O(|E| \log |E|)$

Space complexity $O(V+E)$

E is no. of Edges in graph.