Name: Nishtha Jain Section: H Roll No: 39 DESIGN AND ANALYSIS OF ALGORITHMS (TUTORIAL-G)
What do you mean by minimum spanning tree? What
ove the applications of MST? >> Minimum (Spanning Tree (MST): A niminum spanning tree (MST) Or nername weight spanning tree is a subset of the edges of a connected edge-weighted undirected graph that connects all the vertices together, without any cycles and with the ninimum possible total (edge weight. Applications: * Consider in Astations are to be lighted using a communication network and lying of communication link between any two a Subgraph termed as Minimum, Spanning Tree. * Osuppose you meant to construct highways or railroads
Spanning Several Cities then we can use the concept of minimum Ospanneng tree. * Design LAN. - Laefing pipelines, connecting offshore drilling seles, refineries and consulte moskets. Deale analyse the fine and Ospace complexity of Pone, Kruskal, Diphstro and Bellman food algorithm.) Primis Algorithm: Time complexity) O((V+G) log)

(Space complexity) (U) Kouskalis Algosthm, Time complexity:) O(E(logU))

(Space complexity:) O(IVI)





