## Tutorial -6

soli- Minimum spanning tree- It is a subset of edges of a connected, edge - weighted undirected grown trail connects all the verticer together, without any cycle and with the minimum passible total edge, weight.

Appleations -

1) Suppose you work to construct highway or rangeous spanning several cities then we can use the concept of minimum spanning Tree.

2) Designing of LAN.

- 3) Laying pipeline conneding offshore doilling xiles, references and consumer markets.
- u) suppose you want to apply a set of house with Flector power

Nator-

Sol 2 - Pain & Algorithm > T.C = Q[F] log[V])
SC = O[V]

Koustal's Algorithm => T.C = O(IEI log IEI)

S.C = O(NI)

Distator's Algorithm =  $V \cdot C = O(V^2)$ Sic =  $O(V^2)$ 

Bellmanisford Algorithm => T.C = O(VE)







