1) what do you mean by rehimmer spanny tere?

A mererum spanning the or menement spanny the is a subset of edges of a connected edge weighted undiscottal graphs that connects are the restrict together without any cycle and with the min possible total edge weight

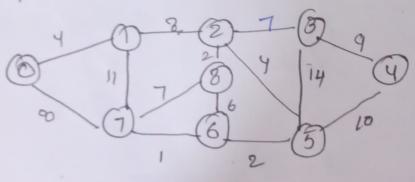
Applecation :-

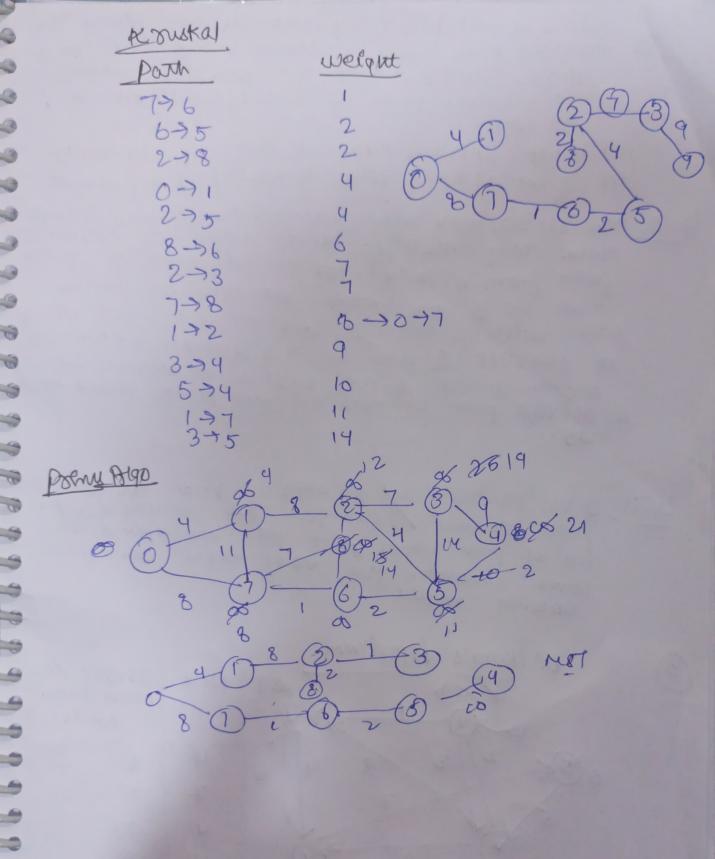
to Designing LAN to laying populary convecting offshore doiling sites,

9 Suppose you want to const. highways or sail souds granny general citais then we use concept of MST.

92 Spale Teme Complexity Algorithm complexity O(UTE) 0(12) Prims 0 (109E) O(FLOQV) Konskal O(VIE) OCV+E) Diskstra's O(V) OCUE) Bellminford.

93\_ Apply point & Koushal's algo to compute MST & its





Oriver a welquited or sapu. You are also given the Shortes pour from a some vertex 6 x1 to a govern desortion vertex & ?. Does the shorter pour semanis some in I modified 9 Juhn in foll case. (i) if wit of every edge is enc by 20 units (9i) I we a every edge & muttiplied by so unts (3 (2) The shortest part may change . The reason is that medelf. no de edges on deffert patry from 's' to 't'. For ex at shortest Spoth there may of Let 15 & how 5 edges a let three he amothe poter with 2 edges 8 total not is 25. The not of shortest is one by 5th 10 becomes 15+50 wit so shortest pan changes to other poth whose wit's 45. I we multiply of oll edges wit by 10, the shortest porth doesnot drange. The reason is simple est of poth forom stat get multiplied by some amont. The vooy edges on a pour doesnot mattu. Digkstoa's Agoritm Shortest dis. Noole 069 05 100 B John Some Node 4 8

