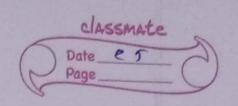
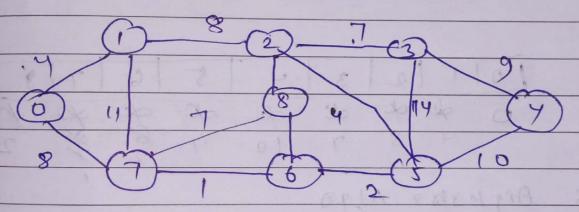
rutorial: 6 A min spanning tree or minimian weigh Spanning tree is a subset of the eage Of connected edge-weight undbecky graph that connects all the vertices together without any cycle & with the min possible total eggle weight Application, -> Design LAN. ) laying pipline connecting offshore dolling sites reginies and consume marketon Suppose you meant to construct nighway or railroad Spanning several B. city then we can use concept of mim spin tree, Time complexity of Potom algo O(Vlogv + E Logv) = O(Elogv) it can be improved = 0 (E+ logv) Space Compterity ~ O(V) Kruskel Alg T(() -) O(E logy) S(C) -> O (Cogo)



dijkstrais Algo T(C) -> O(R[V]+IE]) logv) -S(C) -> O(IV)+IEI)

Bellman Food

Kouskal Algo



28, 10, 86, 78, 23, 07 12, 34,

76 28 65 25 10 86 78 23,07

12, 34, 45, 17;35

meight b = MS+ = 1+2+2+4+4+7+8+9 = 37.

