Connected Graph A graph is connected if every pair of vartices (modes) of the graph are connected by a path (edge) Disconnected Graph CG A graph is disconnected if atleast a pair of vartices (modes), In the Egraph is moto connected by a path (edge) and Front Algorithm Trasbare vadto Pastar has the state testilization of astrov enitrata month assign

Single source shortest path (sssp)

A 5 D homore inques

A 6 D homore inques

A to D homore industry of polythony

A 10 D homore industry

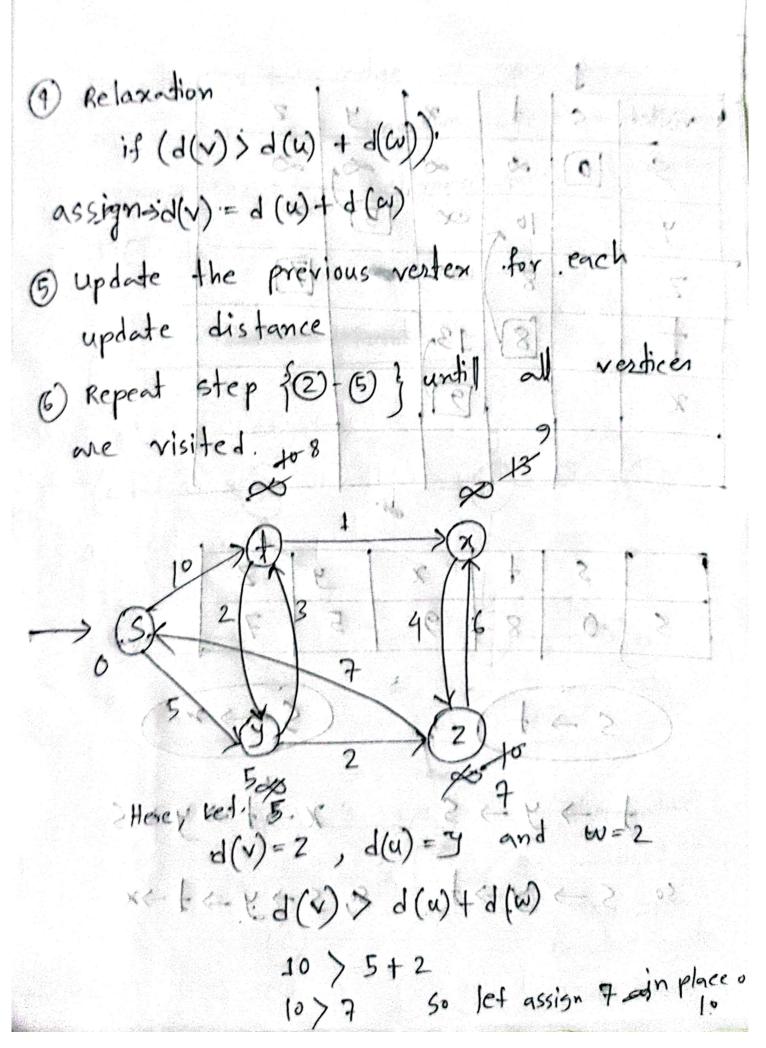
(shortest path)

(spb) itag o polythony

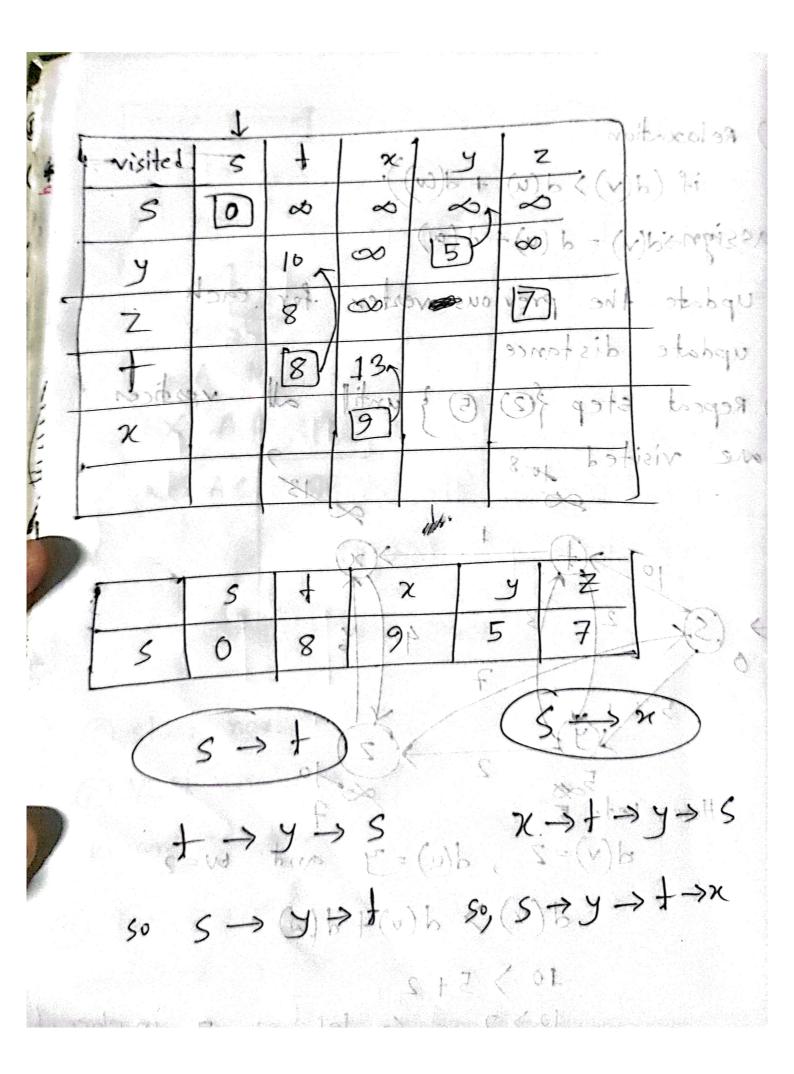
(spb) itag o polythony

Dijkstra's Algorithm

- 1) start node =0, other nodes = op
- 2) Visit unvisited node with smallest known distance from starting vertex
- 3) For current vertex, examine it's unvisited neighbours.



(1) Relaxation 19 (9(n) > 9(n) + 9(n) assign-sid(v) = $d(\omega) + d(\omega)$ (5) update the previous vertex update distance (c) repeat step (2) (5) } until me visited. 108 Herey ved 2 , d(a)=3 (a) 8 + (a) 8 + (a) 8 + 9 (b) 10 > 5+2 so let assign 7 ain place of



Negotive value, edge IF (300) dijkstra
song ano ID. But Negative cycle value
Trema zong zono Bellman ford Algorithm
There

Bellman Fore

