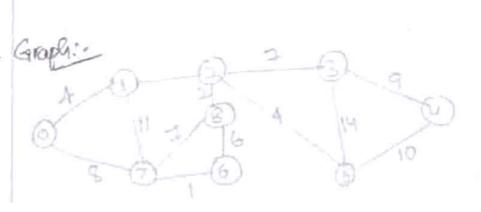
WIGNMENT: -06

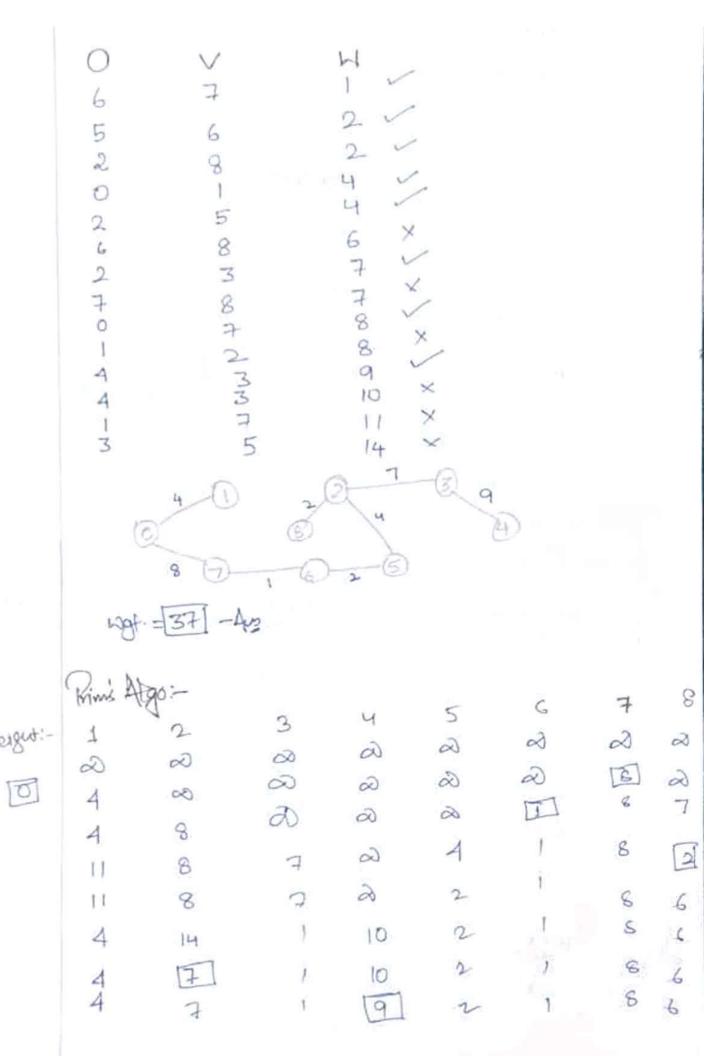
MINIMUM SPANNING TREE: It is a subsect of the edges of a connected edge-tieighted undirected graph that cornect all the vertices together, without any cycles and with the minimum possible total edge coeiget.

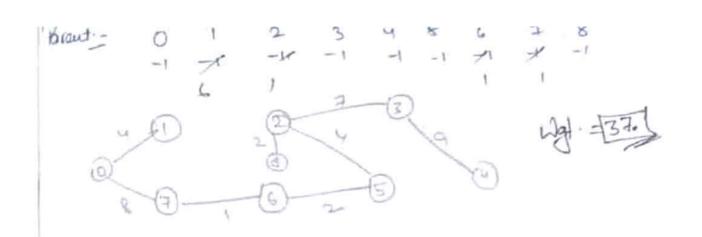
application:

- · Consider a stations are to be linked using a communication ratioark, and lying of communication link byte any 2 stations involves a cost; some use MST for a better output.
- · come goes with vooderays & highways of airlines.
- · Deagn Upr
- Laying Pipelius connecting officers anding etter, refineries of morkets.

2	Algorian	Time complexity	Complexity
	Point Algorithm	O(V+E)	0(4)
	Djekstro's Algoriku Kruskall Algoriku	O(E(LOgV)	0(11)
	Bellman Ford	O(VE)	O(r)



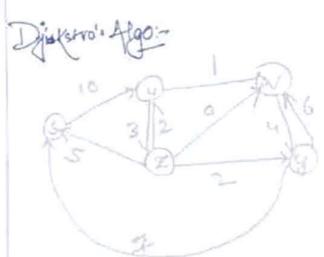




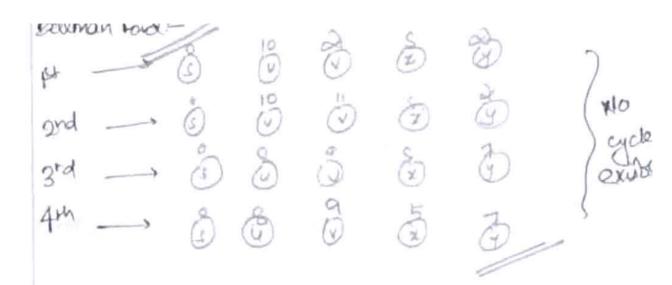
1) shortest path may whange. The reason is that there may be different part from 1s1 to 41. for example:

let shortest park be of weight 15 4 edg 5. Let flore be onother gath will a color and total useight 25. Hence, the shortest park transcers. More usualled of older miles are neugrated of oscor the are ale increases.

(1) If not multiply all edges with by 10, shortest park count change . Buly the weight will be increased by 10x openings it will follow the same part.



Stoffest distance from source visite Node



Suitons

Hoyd washall Algo: