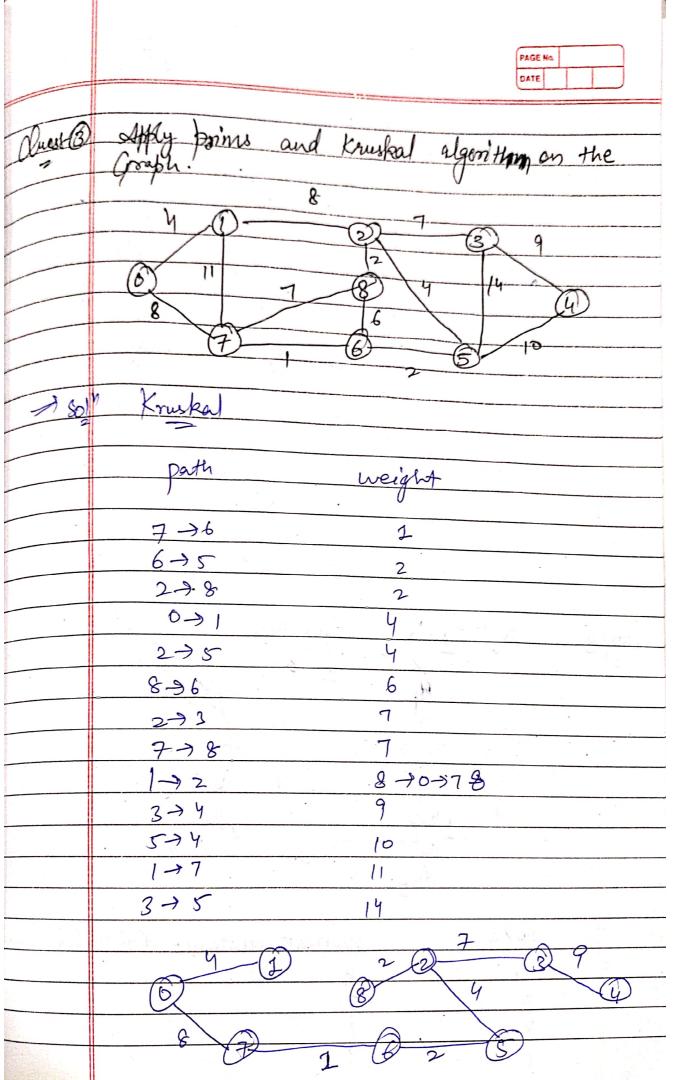
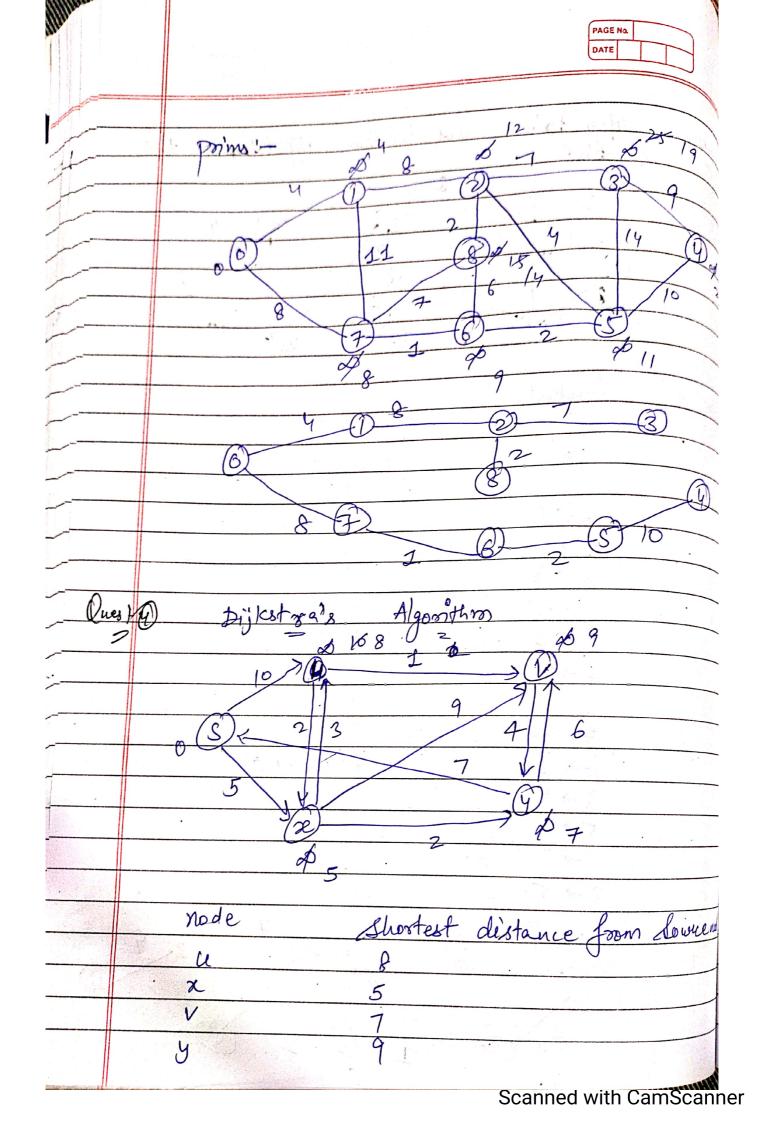
William	Satyan Sherma
Mir	Section E PAGE Na
	37
The state of the s	Tutomal >> 6 g
State of the State	
4-0	what do you mean by Minimum spanning
sinch and a second	tree? what is the application of Mc.
and the second	ol")- A MST is a subset of the edges
And the Control of th	a har weighted undirect in
San	anaph that connects all the Vertice,
and the same of th	1 Strong all the s
and the same of th	with the minimum possible total edge
	Weight.
armin and a second	O
	Application -
	A service of the serv
	Designing local Area network.
2	Laying pipelines connecting of shore dilli
	sites, refineries and Consumer market
1 2	Suppose you want to construct lighting
	or railroads spanning several cities they
	we use the concept of MST.
4	To reduce Cost, you use the concept of MST to Connect the houses.
	1 of MST to Connect the houses.
Ques	@ please Analyse the time and space complexity
	Algorithm Time Complexity Space Complexit
	prime $O(V^2)$ $O(V+E)$
	Kruskal (CE liegv) (log(E))
	Directoral O(VE)
	Bellman ford O(VE) O(V)
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	Bellman ford Algorithm
3	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	$3^{rq} \rightarrow \bigcirc $
	$4^{+m} \rightarrow \textcircled{S} \qquad \textcircled{Q} \qquad \textcircled{V} \qquad \textcircled{g}$
	Final Graph
	9 3 9
	(S) x 2 3 4 6
	2 2 7
	•