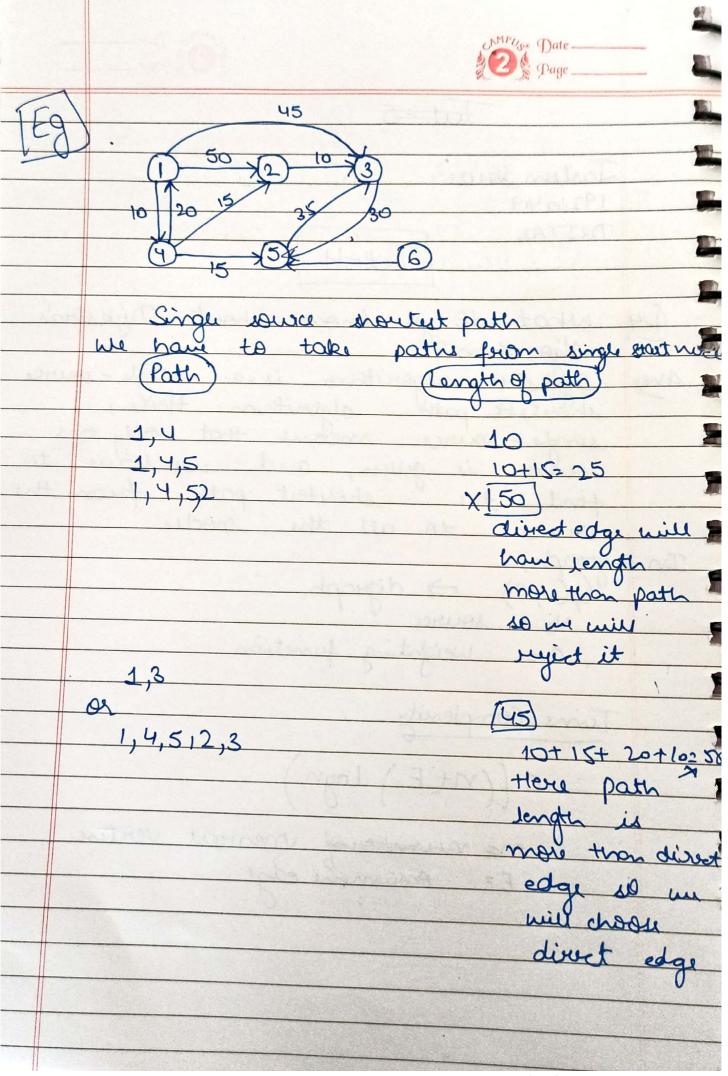
Jaslen Hawi 1921049 DITTAL Tut-4 Algorithm? Dijkstra's Diplestra algorithm is a single-source shoutest path algorithm. Here, single-source means that only one source is given, and we have to find the shoutest path from the source to all the nodes. In a griciph, (7(V, E) ~ digraph C= weighting function Time Complexity o [(n+E) logn) n= number of meanest verter





	Limitation		
7	It does not necessarily give the revived results on the digraph (directed graph) when some or all the edge have negative length.		
	results on the diameter		
	graph when some or all the		
	have negative length.		
	0		
	Algorithm		
	distul ( ) cost [ ][w] Cost adjacency		
	dist[w] ( cost [v][w] matrin  V ( cost [w] ) cost [1:m][1:m]		
	CUSA [W]		
	direct edge		
0 -	Bordean > Siil las cost [v][i] for i=1 ton		
dist [i]= cost[v][i] for i=1ton  Boolean > S[i] = false  ovay  For source			
	tor source		
	10		
	source Start mode will		
	= 250 1 7 consider only		
	o a no		
	dist [v] = 0 J path will be defined		
	for rust of p nodus		
	9-1		
	for (num: 2 to num 5n)		
	verten 2) U  SLW = true   via nearest noch		
	sters / ma rearest noch		
	dist [v]		
	minimum		



for (w21 to ij (s(w)== it will dist (w)	falu) le dist[w] > dist[v]+  cost[w] [w])  assign,  ]= dist[v]+ cost[v][w]
	and the second s
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	E sake Acoust
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