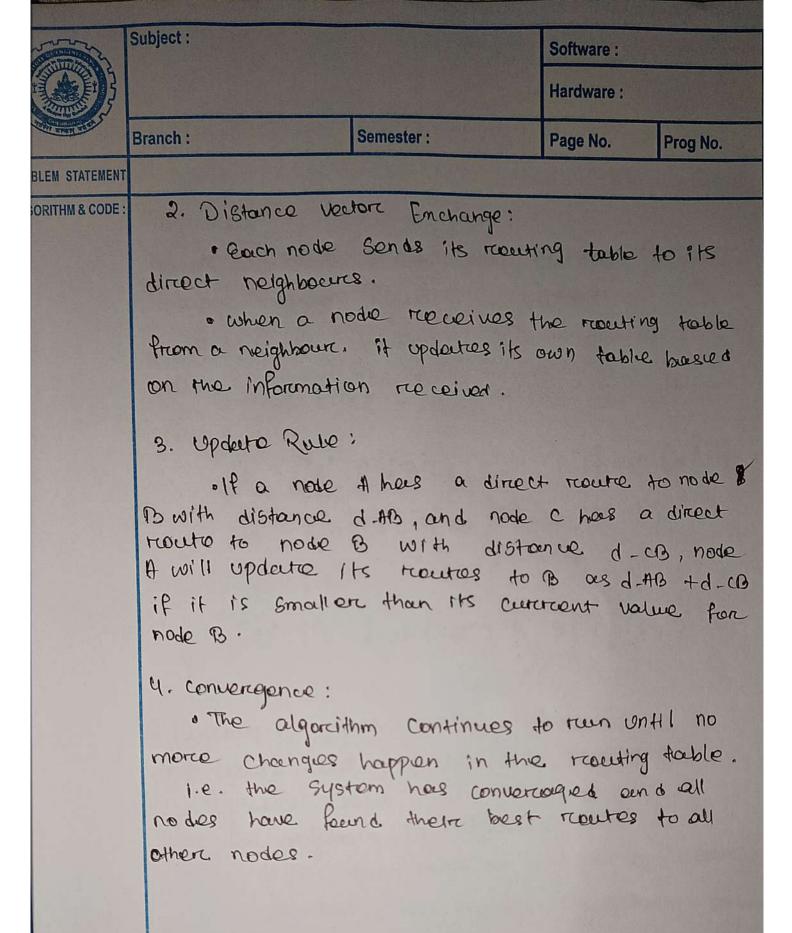
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RITHM & CODE:	mplement distance v	800-7 170	210	lgereithm fo	
	The Distance Vectore Routing Algorithm is one of the fundamental algorithms fore trouting in a network, where each node periodically gends its recuting table to its neighbours, and each node updates its reauting table biessed on the information it receives. In this algorithm, each node maintains a recuting lable their contains the distance (or cost) to touble their contains the distance (or cost) to touble their node in the network. The distance every others node in the network. The distance every others node in the network of hop count is usually responsented in terems of hop count or delay, and the nodes emchange this information or delay, and the nodes emchange this information or delay, and the nodes their own recuting to to bles.				
	Algorathm Querculew: 1. Initialization: 1. Every note maintains a reacting table 1. Every note maintains a reacting table 1. Where the distance to itself is 0, and the distance 1. Unitialization: 1. Initialization: 1. I				
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ORITHM & GODE:	Herce's a basic Pseudocoda outline for the Distance vectore Routing Algorithm: #initialize the network nodes = ["A", "B", "c", "D"] cost = f "b" : f"A":0, "B":1, "c":4, "D":flout ("inf")?, "B" : f"A":1, "B":0, "c": 3, "D":5?, "c":5"A":4, "B":2, "c":0, "D":1?, "D":5"A":4, "B":2, "c":0, "D":1?, "D":5"A":4, "B":2, "c":0, "D":0? # Function to update receiting table. def Update receiting table (node, neighboures): updated = false fore neighboure in neighboures: # Fore each neighboure's distance vectore fore dest, cost-to-dest in distance. Vectores [neighbore]. items():					
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ORITHM & CODE:	new - cost	new - cost = cost [node][neighbore] + cost-to-dest					
	if new-cost [distance-vectores [node][dest]: distance - Vectores [node][dest] = new-cost Updated = Freue restaren updated						
	#main distance	Amain distance vectore recuting Process.					
	def distance - vectore - recenting ():						
	Changed - Trave						
	while changed:						
	changed = False # forc each node, send its recuting touble to its neighbour.						
	forc node in nodes:						
	neighbors = [neighbors fear neighbors in nodes						
	if cost[node]. get (nelghbore, float ("inf")) < float ("inf")						
	if update-recenting-table (note, neighbors)						
	Changed = Trave						
	# Run the algorithm						
	distance - vectors - reauting ()						
	# Print the final trouting toubles P- node in nodes:						
	for node in nodes: Print & If "Routing table for node fnode? : Edistance vocators						
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ORITHM & CODE :	[node]}")							
	Enample	Enample						
	for the given Setup: Node A: Direct connection to B with a cost of 1, C with a cost of 4, and no direct connection to D.							
	Node B! Direct Connection to A with a cost of I, C with a cost of 2, and D with a cost of 5. Node C: Direct connection to B with a cost of 2, D with a cost of 1, and A with a cost of 4. Node D: Only direct connection to C with a cost of 1 and B with a cost of 5.							
	The algorithm will up double the routing tables by enchanging the tables and coveraging to the Shortest Paths between all nodes.							
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GORITHM & CODE:	Emample Output Routing touble for Routing touble for Routing touble for Routing touble for	node 19	1:5'A': 1 5'A': 3,'C' 1'A': 8,'6'	,'B': 1,'C' ,'B': 0,'C' ,'2, 'C': C' : 5, 'C': 1	(,3,'D': 87 (;2,'D': 57),'D': 17 ,'D': 07
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