	Distance Vectoralgorithm. Vhayan Ram 20
	MBM18CS097
	class Tokologic () more Mill
	def-init Uself, away of-points):
	Self nodes = avery of Joints.
	Self. (dg/1=17)
10	dy add duct - Connection (self pp p2, Cost)
	self. edges affend ((b1, b2, cost)). Self. edges affend ((b2, b1, cost)).
	Self. edges. aftend((b2, b1, Cost))
	dy autona vettor do ating (sef).
	Import Collections
-	fou node in sex no des
	dist = collections default dick int)
- 14	next hop={node:node}
	for other node in self nodes
	dist Soltay-node]=100000000# infinity
	# Bellman Forth algorithm
FJ	for in wange ((en (salf-nodes)-1)
•	lou idal in Sell dolors
	src, dont costo = edge
	Suc if dist [src] + Cost = dist [dist]:
	aist [dest] = dest [src] + cost
131	if src == node
	next=hop Ldest)= dest
	all srcin next-hop.
	hext hop [dest) = nex += hop [src]
	Self-frint-vuoleting-talele (node, dist, hut
	hope to be the second of the s
	del frint routing talele (self, node, ditte
-	brint 1' ast 1 cost It Next Hob')
	Jou dest, cost in dist intrems ();
	you are the service of

-	Date
Į	Page
	brint (1' (dest) + (cost) + 8 next-hob[dest]?)
	nodes = l'A, B', C', D', E'J.
-	+ = Topology (node).
	t. add - dewitty - connection (4, B; 1).
	+ add_die ctto_connection (A', '(',5)
	1. add-directly-connection (B, C, 3)
	+ add - dielety-Connection ('B', E', 9)
	+ add-dweetty Connection ('C', D', 4)
	+ add_ derichty Connection (D', E', 2)
	+ distance redor- monting ()
	nodes = in but (Enter the nodes:) split()
	t. Topology (nodes).
	udges int (input ('Enter the number of
	Joy-in wange (vedges): connections))
	Svc, dest, cost=infect ("Entou(src] [dest][cost]:")
	t. add-doud - Connection (src, det int state)
	t distance vector violeting ()
	X
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