	VIVER RAJEEV SPLASH
•	
	PROGRAM: 7A - DISTANCE VECTOR ALGORITHM
02	class Topology:
00	Class (Sparisgy
	dof_init_(self, away-of-points):
	solf. nodes = array_of_points
	Self.edges = []
	dof and direct correction (self, p1, p2 jest)
	Solf. edges abtend (Cp1, to cost)
	solf. adges-append ((p2, p3, (sot))
	def distance-vector-routing (self):
	import collections
	for node in self-nodes:
	dint = collections · dofaultdict (int)
	next - hot = { needs: node }
	for other-node in self-nodes:
	if other - node! = node:
	diot [other_node] = 10000000
	Confor i in nange (On (self-nodes) -1):
	for adas in 30t - odges:
	if dist src + cost (dist cass)
	dist [dest] = dist (src) + cost
	if src = = node:
	nox+ hop [dest] = dest
_	elif src in noxt-hop:
_	next hop [dest] = next hops
	next hop (dest) = next hopsi east print - receiving table (rale, dist, next ho print ()
	print ()

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dof print_riculing-table (self, node, dist, nord-hi print (f'Routing table for Encode 3: mint ('Dest It Gest It Next Het ') for dest. cost in dist - items(): brint (f' 3des+3 / { 3 cost 3 / t { nont-hop [dest] def start (self): 2000 PROGRAM 78: DIJKSTRA'S ALGORITHM (00E import sus class Graph: def_init_ (self, vertices): SOCF. V = vortices self. graph = [To for column in range (vertices) for now in nance (vertices def printsolution (secf, dist): print ("Vertex (+ Distance from source") for node in nange (self. V):
print (node, "t", dist[node]) def min Distance (self, dust, spt8et): min = Eys. mox 817e for Ev in nance (self. V): if dist(v)< min and spt8et[v]=Fall min = clist [V]

min_index = V notion min-index def digitation (self, erc): dist = [sys marsize] + sect. 1 dist [src] = 0 8pt 20t = (False) * 800+ .V for cout in range (sect. V): U = self. min Dietance (dist, 8pt 20+) slot-8e+[0] = True for v in Transp (cest. V): if self. graph[v][v]>0 and sptset[v] == False and dust [v] > dust [0] + 200f - graph [v]]: dist[v] = dist[v] + self-graff[T] self. print Rolution (Seaso) (dust) 3

if ic len (data to send):

buffer buffer aftend (data to send): ODSE if j < Don (data_to_send):
print ("Data less"+ data_to_sendi.

	PROGRAM 8: LEAKY BUCKET ALGORITHM
ODE	import os clear = Patribda: os. system ('clear')
	Class Client:
1/2	def_init-(self, nate=int, data=[]
	self nate = mate
	dof oto GeOf):
Tray :	noturn str ([str (self.nate), str (self.data)]
Gent	the state of the first of the state of the s
	Class Buffers:
~	dof_init_ (self, buffer_size = int, buffer self. buffer-size = buffer_size
~	soff. buffer = buffer
	dof chockstate (self): if lon (self. buffer) = = 0:
~	roturn Frue
~	def - str (self):
~	str (self. buffer)]);
7	baseslate = True
1] Sec = 1

