PROGRAM 9: TCP/IP-CLEENT/SERVER CODE PART 1 - SERVER . PY from socket import \* serverName = "127 - 0-0-1" Sover Port = 12000 sonven Socket = socket ( AFQ\_INET, SCK STREAM somer 8 cocket - bind ((serventume, somer Port) Sonver Socket - Dister (1) mint (" Roady to recieve " while 1: connectionSocket, addr = sonver Socket accept sentence = connectionsocket. recv (1024) duals (66 · oken (sentenco " r") l = file-read (1024) Connoction Stocket . sond (1. encode()) File-close () connection socket. Eclose (7 PART 2 - CLIENT . PY LODE from except import \* SorverName = "127-0-0.1" 800 NOT PORT = 12000 Client Socket = socket (AF\_INET, SOCK STEERING client Scocket. econnect ((somer Name, serveriont)

dof print\_riculing-table (self, node, dist, nond-hi print (F'Routing table for { node 3: for dest cost in dist-items():

print (f') dest } (E) (ast ) (b)

next-hop (dest) }') def start (self): 8400 PROGRAM 7B: DIJKSTRA'S ALGORITHM 1000 class Graph: def\_init\_ (self, vertices): SOCF. V = vortices self. graph = [ TO for column in rance (vertices) for now in nance (vertices def printsolution (secf, dist): print ("Vertex /+ Distance from source") for node in prange (solf-V): def min Distance (self, dust, spt8et): min = eys. more Size for Ev in nange (self. V): if dist [v] < min and spt8et[v]=Fall min = clist [U