Name-winnt Syd . USN-1BM18USÓW. Date - 31/12/20 [CN-Lab Test (D) claus Topology:

def - init - (self, acroyed-points); Felf. modes = array- of points self edges = CJ. def add-direct-connection (self, p, p2, cost); of edges affect ((b) p2, cod) olf. edges. append ((p2, p1, cost)). def distance-vector-souting (self): import callection for nods in self nodes: dist = callection. default dict (ent). 3 menthop = { node: node }. for other mode in self-modes: if other-node != node: 2 dist [other-mode] = 100000000 # 0 3 for i in large (len ( reg. modes)-1): for edge in self, edges: war dut cost = eagle.

if dist [see] + cost < dist [dest]:

dist [dest] = dist (S & i) = + cost

if "see == mode:

must-hop [dest] = dest

ellif ser in mest hop:

next-hop [dest] = mest peop[see]

self. peint - souting - table (mode, dist, ment-hop)

del print\_routing\_table (self, mode, dist, mest\_hop):

print (f' Routing table for & mode &: ')

form! ('nest \t cost \t mest hep')

for dest, cost in dist: items ():

print (f' (alyt) \t \text{Cost} \t \t \text{mest-hap (alest)})

mody = ['A','B','C','b','E', 'F','G']

t = of Topology (modes).

to add dried cometion ('A', B', 4)

to add dried cometion ('A', B', 4)

to add direct cometion ('A', C', 5)

to add direct cometion ('B', C', 2)

to add direct cometion ('B', G', 4)

to add direct cometion ('B', G', 4)

to add direct cometion ('C', F', 4)

to add direct cometion ('B', E', 3)

to add direct cometion ('B', E', 3)

to add direct cometion ('B', E', 3)

to add direct cometion ('B', E', 3)