clase Topology:

def init (self, away):

self.nodel = away.

self-edgel = []

def connect (self, point1, point2, weight):

self. edger. append (point1, point2, weight)

self. edger. append (point2, point1, weight)

def distance Vector Routing (Self): import collections for point in self-nodes:

distance = collections. default dict (int)

next-hop = {node: node }

for Boints in self. nodes:

I'P Boints ! = point :

distand points) = 99999

for i in range (self-nodh. --len. -1):
for edge in self-edges:

source, deltination, weight = edge.

distance

if deltination [source] + weight

distance

L deltination [deltination]:

A Agaswal

distance [destination] = distance [destination] + weight

if source = = point :

next - Rop Edestination] = destination.

else if source in next-hop:

next-hop [destination] = next-hopEsoner

self. Burntatable (node, distance, next-hop)

det puint-table (self, node, dist, next hop)

for dek , cost in dist. itemes:

fruint (f'Edeet 3 It Enext-loss
[dust] 3')

nodle : ['A', 'B,', 'C', D', 'E', 'F', 'G']

+ . Topology Crocks].

+. add connect ('A', 'B', 4)

t. connect ('A', 'c', 5)

('A','D', 3)

('B', 'c', 2)

4 ('B', 'F',3)

" ('B','4,4)

" (2', D', 6)

" ('c', 'E', 4)

" (¿', 'F', 4)

" (D', 'E', 3)

" ('E', F', 2)

y ('F,'G', 5)

t. distance Vector
Routing ()