M.S. SATHWICK KIRAN 1B 418 CS 050

5-B

CODE

Class Topology:

dy - mit - Crell, away - of - during points):

set node = array - & - points All edge = []

def add-direct-connection (relf, p1, p2, cost):

ref. odges. Oped ((41, 12, cost))

self edges appeal (1 pz, pi, cost)

def distance-vector-vouting (self): import collection

to node in self. noda:

dist = collections default dict (int)

nut - he = { node: node}

for other nade! = nade:

otal : } other - node! = node:

did [etla - nade] = 100000000 = infinity

i in roge (lan (self nodes)-1):

for edge in rely edges:

110, delt, cost = edge

if dist [AC] + cost < dut [dut]:

Al

t. distance vector contig O

t. add. direct - connection ('A', D', 3)

t. odd - direct - connection ('B', E', 2)

t. odd - direct - connection ('B', E', 3)

t. odd - direct - connection ('B', E', 3)

t. odd - direct - connection ('B', E', 3)

t. odd - direct - connection ('C', D', 6)

t. odd - direct - connection ('C', E', h)

t. odd - direct - connection ('C', E', h)

t. odd - direct - connection ('D', E', 3)

t. odd - direct - connection ('E', E', 2)

t. odd - direct - connection ('E', E', 2)

t. odd - direct - connection ('E', E', 2)

t-distance - vector - vontig ()

