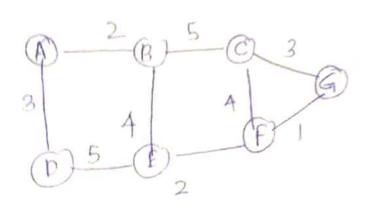
- Frogram 1. Charge the Evidade book Sto updas algorithm

- for the following dopology to show the following entarge is

Show the updates up to the above a stocking as Ned to be or or plants.

The Same



podram

class Topology:

sof. rodus = away - of points).

Sof. rodus = away - of - points

Sof. codgus = []

suf add direct - commenter (suf s ps p2, cont):

suf . cdgs . append ((p1) p2 s cost))

suf . edges . rapperd ((p2, p1, cost))

under distance - keter unouting (suf):

for mode in Suy, nodes:

dist = collictions defaultabletcint)

nut-hop= & node= mode 9

for other a noch in self naches

dist cother\_ nde7= 100000000 # infing

```
H Bauman rosa algorithm
                                                 Neulan Gargeforthyay 1
                                                      BURCIOSE
       for I'in range (len (sey nodes)-1):
              for edge in say edges:
                 Sir o dest o cost = edge
               " | dist [sir] + cost < dist[dust]:
                 dut [dut] = dist[src] + cost
                  J/ Src == nod :
                     new topfout ]= dust
                  elif src un next hop.
                     next-hop [dust ] = next-hoppisc)
      Solf print - roung - table Grood, dust , next-hop)
        phote /
 ide frint = rowing - take (selfo now, dust o next-hop) s
       frint (F' Rouhry table for & noch 1:")
        print ('Dest It Cost It Next Hop')
           for dest of cost in dist bemal);
          front (f'Edust 31 t Ecost 11 t & noct - not [dus ] 3')
moder = ['A'9 'B', 'C', b's 'E's 'F' 6']
   d = Topology (nodes)
  + add-direct - connection ('A', 'B', 2)
```

1. add dired communon ( A', 10; 3)

J. add . direct\_connuction ( 'B', 'c', 5)
J. add . direct\_connuction ( 'B', E', 4)

t. add. direct - connection ('C', G', 3)

t. add direct - connection ('C', IF', 4)

t. add direct - connection ('b', E', 5)

Deel

t. add. chrot-connidon ('E', 'F', 2)

t. add. direct - conniction ( 'F', '6', 1)

d. udistanci\_vactor\_rowing ()