Woute a program for distance vector algorithm to find suitable path for transmission (Python).

```
class node ():
     int dist[20]
         from [20]
```

3-11-90

```
def start():
dm[a0][a0]
       point ("Enter the number of nodes")
       no = input()
       print ("Enter the distance matrix: ")
      for i in range (no):
          for j in ronge(no):
               dm[i][j] = input()
               dm[i][i] =0
               rouse [i] · dist [i] = dm[i][j]
               route [i].from(j] = j
```

BBSEY

```
CNlab
```

```
flag = 1
while (flag):
flag = 0
```

for i in stange (no):

for j in stange (no):

for k in scange (no):

if ((Prout [i].dist [j])>(route [i].dist[k]+

route[k]·dist[j]):

route [i] dist [j] = route[i].dist[k]+
route[k].dist[j]

noute [i]. from [j] = k
flage = 1

for (int i=0

for in range (no):

print ("Router info for nouter" + " "+ 1+1)

Print L" Dest Next Hop Dist")

for j in range (no):

Pacint (j+1+" "+rock[i].from[j]+1+" "rock[i].

dist[j]