23/11/20

AKSHAY MITTUR

1BM18CSOID

CN LAB WRITEUP

DISTANCE VECTOR ALGORITHM

class Graph:

def\_init\_(self, n)=

self. matrin = []

self.n=n

def all Edge (self, u, v, w);

Self nation append ((u,v, w))

deff pint Am (self, dist, sic):

print ("Vector Table of { } ". Fromat (chr(ord('A')+sse)))

for in range (self.n):

print (" {0} It { 1} ". format (chr(ord ('A')+i), dist[.]

deff BellmonFord (self, src);

dist= [99] +self=n

dist[src] = 0

for \_ in rang (self.n-1):

for y, v, w in self. matin:

if dist(u)! = 19 ad dist[u] tw cdistle

dist[v]=dist[u]+w

self.printArddist, sic)

def main ():

matria = []
print ("Enter Nodes")

N= int(input())

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	print ("Enter Adjaceny Matrix")}
	for; in lange (n):
	m = list(map(int, input() split (" ")))
	matrix.append (m)
	g = (r caph(n))
	for in range (n).
	for jin longe (n):
	if matrin[][]==1:
	g.adlFdge(i.j.1)
	pr = in range(n):
	g. Bellmonterd(_)
	main ()