```
chardon ( Borger
                CNLAB
                                      18M18C5026
# program for distance vector algorithm
 class orraph:
    dy - init - (sey, n):
        Sul matrix = []
        Self. h = n
 dy oddlage (sey, u, v, w):
     self mation appear ((u, u, w1)
 deput Arr (seb, dist, src):
      print ("vector rance of []" for most (chr (ord (in))+sre))
     for intarge (sey. n):
       print (" 10 ] ( = {1) " former ( chr ( ora (n') +i), disc())
dy Bellman Ford (self, Src):
     dest = [99] * seft. n
     dist [src] =0
     for _ in range ( sey.n-1):
         for v,v,w in self-matrix:
          It dist [4] ]=99 and dist [4]+ we dist [4]:
              dist [v] = dist[u]+w
     self. puin Arry (dis, src).
del main ():
     marrix = []
      puin (" Ever no of nods;")
       n = Int (input())
     point ("Enra the Adjacery Mairx:");
    toy 1 in warge (+):
       n= map (en) inpu (1, spl) (" "))
        matrix appear (m)
   9 = Graph(n)
```

for in range (n): for i in range (n): 4 marmin (i) (i) == 2: g. addsage (i, i, 1) tor i in marge (n): g. Belimour ford (_) mou'n ().