clase Graph ():

def --init -- (self, vert):

self.numVert = vert

self.graph = []

det add Edge (seif, fr, ho, weight):
seif. graph. append (Cfr, to, weight))

def print Dists (self, x, arr);

print ("Distances from" + str(x))

for " in range (self. numvert):

print (str(i) + " (t" * 2 + str(arr[i])

det Bellmanford (self, source);

cost = [float ('inf')] * self. numbert

cost = source] = 0

for - in range (self. numbert -1);

for fr, to, weight in self. graph:

if cost[fr] != float ('inf') and

cost[fr] + weight (weight (cost [10];

cost[fo] = cost[fr] + weight

self. print Dietos (source, cost)

```
n = int (input ("Enter number of vernicu"))
g = p Graph (8)
while ( x == 0) #
 x = int (input (" Enter 1 to add an edge In 2 to distanswer"))
 CONTRACTOR .
  if (x = = 1):1
    fr = int (input (" Enter source: "))
   to = int (input ( * Enter destination: "))
   ow = Ent (input (" Enter weight: "))
   g. add Edge (fr, to, w)
  else:
   for i in range (n):
        g. Bellmanford(i)
```