class fragh ():

def \_init\_ (sey, vertices):

self. V · vertices

self. graph · [[ o for column in rouge (v)]

for row in varye (v)]

def print-solution (self, dist):

print ("Verten It Distance from Somee")

for node in range (self, V):

print (node, "It", distance node)

def nuin - distance (self, dist, spt Set):

nuch = 9999

for v in range (self.v):

if dist[v] c nuch and sptSet [v] == False:

nuin = dist[v]

nuin - in = v

return nuin - inden

def add-edge (sey, see, deet, neight):

Sey. graph [see] [dirt] = sey. graph [dest][see]

= weight

def dijstra (sey, src):

olist=[9999] + sey. V

olist=[src] = 0

spt Set = [False] \* sey. V

Jan cout in rouge (sey.V):

u=sey. nuin-distance (dist, spt Set)

spt Set [u] · True

for v in range (sey.V):

if self. graph [u][v] > 0 and spt Set [v]

== False and obit [v] · dist[u]

+ self. graph [u][v]:

dist [v] = obit [u] + self. graph [u][v]

self. print-solution (duit)