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Question: Remonstrate Rijkstrar algorithm
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Ans:

code:

import ryr clare graph:

del - inet - (refl, vertices):

self . V = vertices

relf. graph = ([o for column in range (vertices)]
for now in range (vertices)]

def fount rolution (reff, dirt):

frint ("vertex \t distance from rource")

for node in range (reff. V):

fount (node, "\t", dist [node])

def min Distance (reflf, dist, spt set):

min = ryr. mos rize

for v in range (v self . V):

if dirt(v) < min and splitet(v) == false:

min = dirl [v]

min_index = V

geolurn min-index

def ø dijkertore (seff, rou):

dist = [syr. maxize] * relf. v dist [sre] = 0 rft rel = [false] * relf. V for count in range (sel. v): u = seft. min Virlance (dist, spl ket) spi set (v) = Loue for v in range (self. V): if so self graph [U](V) > 0 and spt sel (V) == folse and dist(V) > dist(V) + reft. graph V: det [V] = dest [V] + self. graph [V][V] sel , frint solution (dist) g = Graph (6) g. graph = [[0, 4, 0, 0, 0, 2], [4,0,5,0,0,1], [0,5,0,6,2,8], [0,0,6,0,5,0], [0,0,2,5,0,10); [2,1/8,0,10,0];

g. dijkstera (0);

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