Source Code:

def dijkstra(g, s):

d = {node: float('inf') for node in g}

d[s] = 0

uv = list(g.keys())

while uv:

mind = float('inf')

minn = None

for node in uv:

if d[node] < mind:

mind = d[node]

minn = node

uv.remove(minn)

for n, w in g[minn].items():

ndist= d[minn] + w

if ndist < d[n]:

d[n] = ndist

return d

g = {'A': {'B': 4, 'C': 2},'B': {'D': 2, 'E': 3},'C': {'D': 3, 'E': 5},'D': {'E': 1},'E': {}}

s = 'A'

dist = dijkstra(g, s)

print("Distance from s", s)

for n, d in dist.items():

print(n, ":",d)

Screenshot:

