INF = 9999999

# number of vertices in graph

N = 5

#creating graph by adjacency matrix method

G = [[0, 19, 5, 0, 0],[19, 0, 5, 9, 2],[5, 5, 0, 1, 6],[0, 9, 1, 0, 1],[0, 2, 6, 1, 0]]

selected\_node = [0, 0, 0, 0, 0]

no\_edge = 0

selected\_node[0] = True

# printing for edge and weight print("Edge : Weight\n")

while (no\_edge < N - 1):

minimum = INF

a = 0

b = 0

for m in range(N):

if selected\_node[m]:

for n in range(N):

if ((not selected\_node[n]) and G[m][n]):

# not in selected and there is an edge

if minimum > G[m][n]:

minimum = G[m][n]

a = m

b = n

print(str(a) + "-" + str(b) + ":" + str(G[a][b]))

selected\_node[b] = True

no\_edge += 1

OUTPUT

0-1:19

0-2:5

1-4:2

2-3:1