# Name:Manasi Kale

# Roll No:13

INF = 9999999

N = 5

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 = [False] \* N

selected\_node[0] = True

no\_edge = 0

print("Edge : Weight")

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]:

                    if minimum > G[m][n]:

                        minimum = G[m][n]

                        a = m

                        b = n

    print(f"{a}-{b} : {G[a][b]}")

    selected\_node[b] = True

    no\_edge += 1

