**PRIMS ALGORITHM:**

def prim(graph, start):

mst = []

visited = [False] \* len(graph)

visited[start] = True

edges = []

for i in range(len(graph)):

for j in range(i+1, len(graph)):

if graph[i][j] != 0:

edges.append((graph[i][j], i, j))

edges.sort()

for edge in edges:

weight, node1, node2 = edge

if visited[node1] != visited[node2]:

mst.append(edge)

if not visited[node1]:

visited[node1] = True

if not visited[node2]:

visited[node2] = True

return mst

graph = [[0, 2, 0, 6, 0],

[2, 0, 3, 8, 5],

[0, 3, 0, 0, 7],

[6, 8, 0, 0, 9],

[0, 5, 7, 9, 0]]

mst = prim(graph, 0)

for edge in mst:

print(edge)

OUTPUT:

(2, 0, 1)

(3, 1, 2)

(5, 1, 4)

(6, 0, 3)