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Roll No: 20U437
Class: T.E. Comp
Div: 4
Batch: T16
                                            Assignment 3
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]:
```

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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:

```
Edge: Weight

0-2:5
2-3:1
3-4:1
4-1:2

...Program finished with exit code 0

Press ENTER to exit console.
```