In [1]:

```python
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 = [0, 0, 0, 0, 0]
no_edge = 0
selected_node[0] = True

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]):

         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
```

```
Edge : Weight

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

In [ ]: