95. prims algorithim

Program:

```
INF = 9999999
V = 5
G = [[0, 9, 75, 0, 0],
    [9, 0, 95, 19, 42],
    [75, 95, 0, 51, 66],
    [0, 19, 51, 0, 31],
    [0, 42, 66, 31, 0]]
selected = [0, 0, 0, 0, 0]
no_edge = 0
selected[0] = True
print("Edge : Weight\n")
while (no_edge < V - 1):
   minimum = INF
   x = 0
   y = 0
   for i in range(V):
      if selected[i]:
         for j in range(V):
            if ((not selected[j]) and G[i][j]):
               if minimum > G[i][j]:
                  minimum = G[i][j]
                  x = i
                  y = j
   print(str(x) + "-" + str(y) + ":" + str(G[x][y]))
   selected[y] = True
   no_edge += 1
```

Output:

```
Edge : Weight

0-1:9
1-3:19
3-4:31
3-2:51

=== Code Execution Successful ===
```

Time complexity:O(v^2)