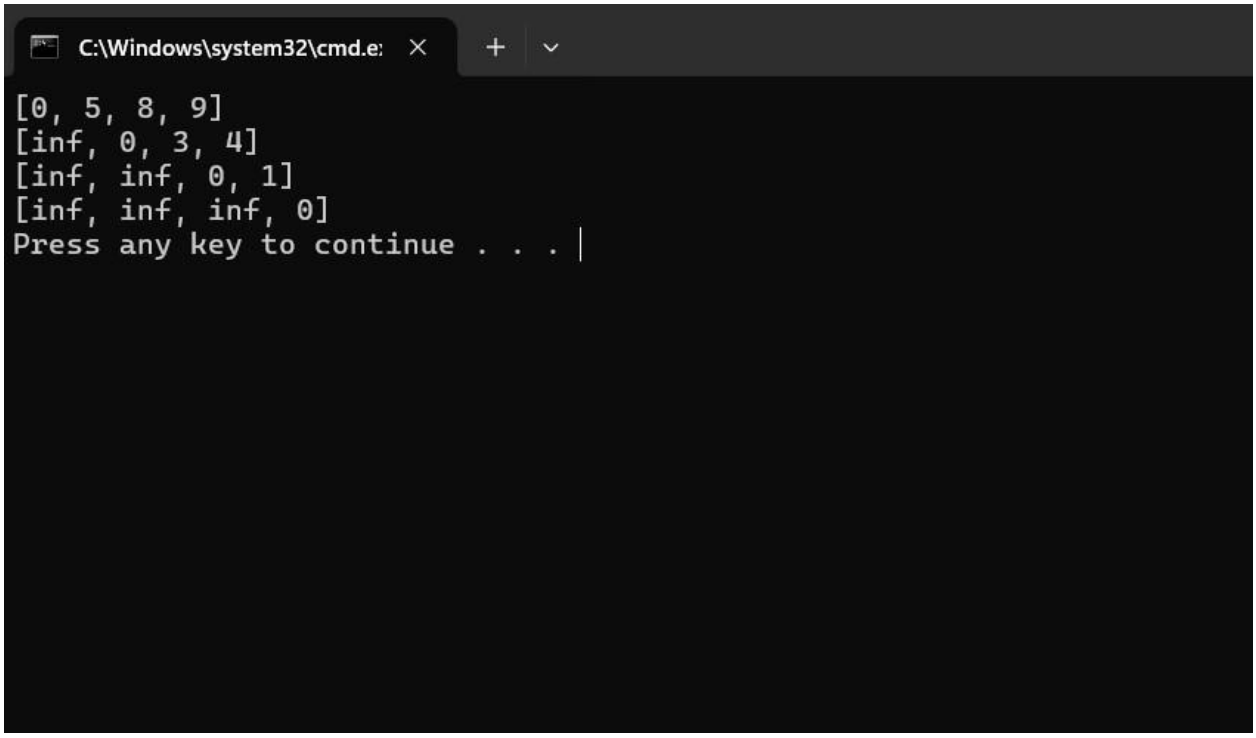
106) Floyd algorithm

CODE:

```
def
floyd_algorithm(graph):
n = len(graph)     dist =
graph
     for k in range(n):          for i in range(n):              for j in range(n):
dist[i][j] = min(dist[i][j], dist[i][k] + dist[k][j])

    return dist
 graph =
[
    [0, 5, float('inf'), 10],
    [float('inf'), 0, 3, float('inf')],
    [float('inf'), float('inf'), 0, 1],
    [float('inf'), float('inf'), float('inf'), 0]
]
result =
floyd_algorithm(graph) for
row in result:     print(row)
```

OUTPUT:



TIME COMPLEXITY : $O(n^3)$