Algorithm:

Steps:

1. Enter the no of city(vertices);(let n)

2. Enter the adjacency matrix with the respected weights;

Take a visited array and initialise it with zero from one to n.

3. Now start with the starting city(source vertex) and mark it visited by

visited[i]=1;

4. Calculate the minimum distance of that city with the every other vertex.

5. Check the minimum distance city form the source vertex and add its distance (weight) in the cost.

6. Now take that city as a source vertex and call dijikstra to calculate the minimum distance from every other vertex.

7. Continue step 5 and 6 untill every city(vertex) is traversed.

8. Print the cost

