Write the python to implement Travelling **Salesman Problem**

AIM:

To write a python program to implement travelling salesman problem

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PROGRAM:
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return min path

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from sys import maxsize
from itertools import permutations
V = 4
def travellingSalesmanProblem(graph, s):
     vertex = []
     for i in range(V):
           if i != s:
                vertex.append(i)
     min path = maxsize
     next permutation=permutations(vertex)
     for i in next permutation:
           current_pathweight = 0
           k = s
           for j in i:
                current_pathweight += graph[k][j]
                k = i
           current pathweight += graph[k][s]
           min path = min(min path, current pathweight)
```

OUTPUT:

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= RESTART: C:\Users\Welcome\Downloads\tsp.py
The minimum cost of the path is:
80
```

RESULT:

The program was executed successfully and result was obtained.