PYTHON PROGRAM

```
1  #Program to implement Travelling Salesman Problem
2  answer = []
3  def tsp(graph, v, currPos, n, count, cost):
4      if count == n and graph[currPos][0]:
5          answer.append(cost + graph[currPos][0])
6          return
7      for i in range(n):
8          if v[i] == False and graph[currPos][i]:
9              v[i] = True
10             tsp(graph, v, i, n, count + 1, cost + graph[currPos][i])
11             v[i] = False
12 if __name__ == "__main__":
13     n = 4
14     graph = [[0, 10, 15, 20],
15              [10, 0, 35, 25],
16              [15, 35, 0, 30],
17              [20, 25, 30, 0]]
18     v = [False for i in range(n)]
19     v[0] = True
20     tsp(graph, v, 0, n, 1, 0)
21     print(min(answer))
22
```