Question-Optimizing delivery routes for a logistic delivery.

```
#include<bits/stdc++.h>
#define INF INT_MAX
using namespace std;
void printSolution(const vector<vector<int>> &dist)
    int V = dist.size();
    for (int i = 0; i < V; i++)
        for (int j = 0; j < V; j++)
             if (dist[i][j] == INF)
    cout << "INF"<< "\t";</pre>
                 cout << dist[i][j] << "\t";</pre>
        cout << endl;</pre>
void floydWarshall(vector<vector<int>> &graph)
    int V = graph.size();
    vector<vector<int>> dist = graph;
    for (int k = 0; k < V; k++)
        for (int i = 0; i < V; i++)
             for (int j = 0; j < V; j++)
                 if (dist[i][k] != INF && dist[k][j] != INF && dist[i][k] +
                 dist[k][j] < dist[i][j])</pre>
                     dist[i][j] = dist[i][k] + dist[k][j];
    printSolution(dist);
int main()
    vector<vector<int>> graph =
       {{0,6,INF,10},{4,0,INF,8},{INF,2,0,INF},{INF,INF,4,0}};
    floydWarshall(graph);
    return 0;
```

## Output -

```
PS C:\Users\npnik\Desktop\CPP> cd "c:\Users\npnik\Desktop\CPP\CA\" ; if ($?) { g++ ca-2.cpp -o ca-2 } ; if ($?) { .\ca-2 } 0 6 14 10 4 0 12 8 6 2 0 10 10 6 4 0 0 PS C:\Users\npnik\Desktop\CPP\CA\>
```