```
#include <iostream>
using namespace std;
int main() {
  int n;
  cout << "Enter No. of cities: ";</pre>
  cin >> n;
  string cities[n];
  int adj[n][n]; // Adjacency matrix
  // Initialize adjacency matrix with 0
  for (int i = 0; i < n; i++) {
     for (int j = 0; j < n; j++) {
       adj[i][j] = 0;
    }
  }
  // Input city names
  for (int i = 0; i < n; i++) {
    cout << "Enter City Name " << i << ": ";
     cin >> cities[i];
  }
  // Input distances between cities
  for (int i = 0; i < n; i++) {
     for (int j = i + 1; j < n; j++) {
       cout << "Enter Distance Between " << cities[i] << " and " << cities[j] << ": ";</pre>
       cin >> adj[i][j];
       adj[j][i] = adj[i][j]; // Symmetric
     }
```

```
// Display adjacency matrix
cout << endl << "\t";
for (int i = 0; i < n; i++) {
    cout << cities[i] << "\t";
}
cout << endl;

for (int i = 0; i < n; i++) {
    cout << cities[i] << "\t";
    for (int j = 0; j < n; j++) {
        cout << adj[i][j] << "\t";
    }
    cout << endl;
}

return 0;</pre>
```

}