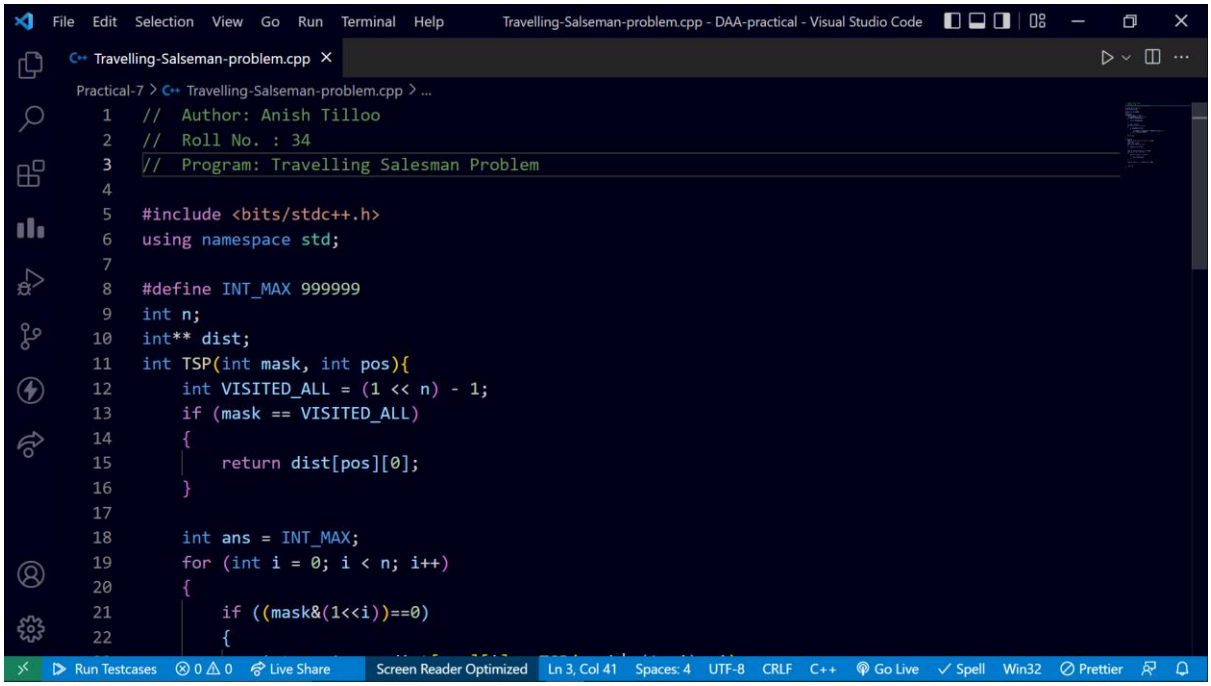
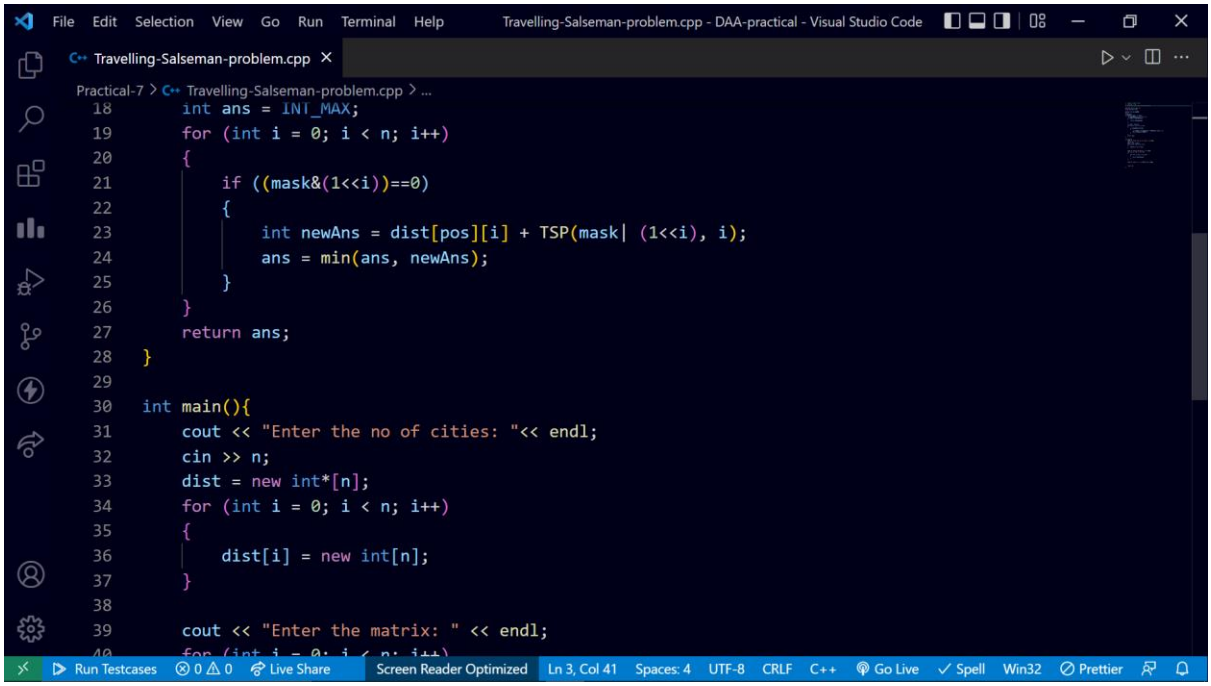
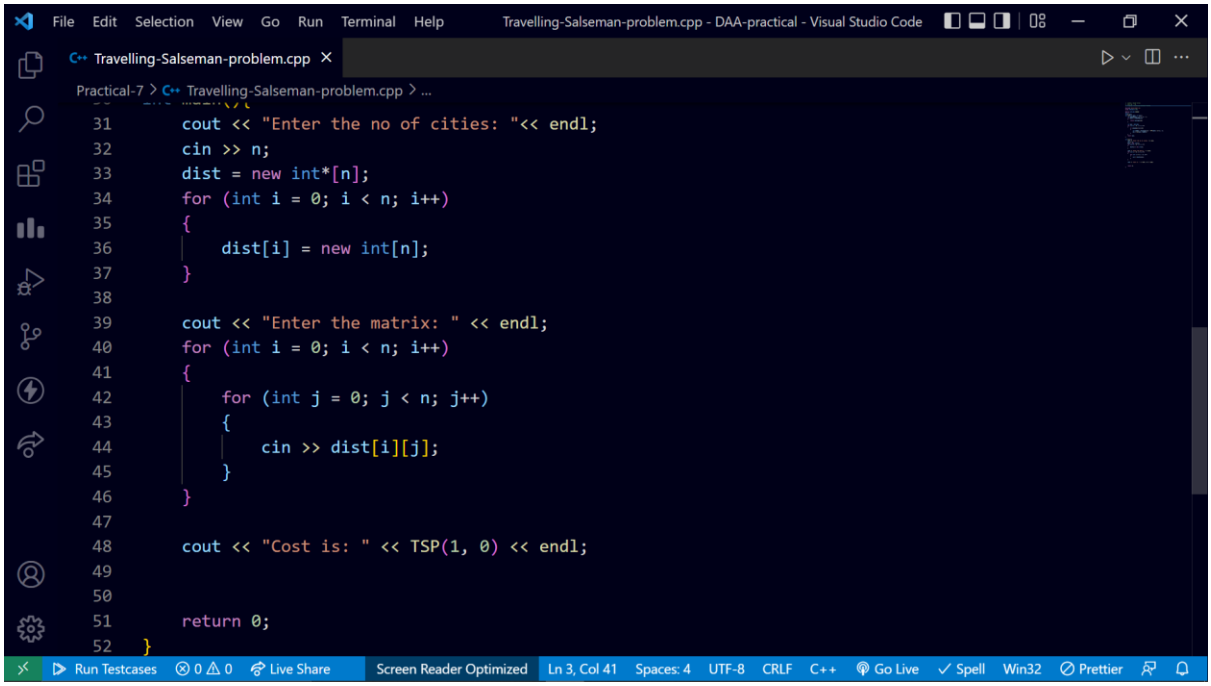

File Edit Selection View Go Run Terminal Help
Travelling-Salseman-problem.cpp - DAA-practical - Visual Studio Code
Travelling-Salseman-problem.cpp
Practical-7 > Travelling-Salseman-problem.cpp > ...
// Author: Anish Tilloo
// Roll No. : 34
// Program: Travelling Salesman Problem
#include <bits/stdc++.h>
using namespace std;
#define INT_MAX 999999
int n;
int** dist;
int TSP(int mask, int pos){
int VISITED_ALL = (1 << n) - 1;
if (mask == VISITED_ALL)
{
return dist[pos][0];
}
int ans = INT_MAX;
for (int i = 0; i < n; i++)
{
if ((mask&(1<<i))==0)
{
Run Testcases 0 0 Live Share Screen Reader Optimized Ln 3, Col 41 Spaces: 4 UTF-8 CRLF C++ Go Live Spell Win32 Prettier


File Edit Selection View Go Run Terminal Help
Travelling-Salseman-problem.cpp - DAA-practical - Visual Studio Code
Travelling-Salseman-problem.cpp
Practical-7 > Travelling-Salseman-problem.cpp > ...
int ans = INT_MAX;
for (int i = 0; i < n; i++)
{
if ((mask&(1<<i))==0)
{
int newAns = dist[pos][i] + TSP(mask| (1<<i), i);
ans = min(ans, newAns);
}
}
return ans;
}
int main(){
cout << "Enter the no of cities: "<< endl;
cin >> n;
dist = new int*[n];
for (int i = 0; i < n; i++)
{
dist[i] = new int[n];
}
cout << "Enter the matrix: " << endl;
Run Testcases 0 0 Live Share Screen Reader Optimized Ln 3, Col 41 Spaces: 4 UTF-8 CRLF C++ Go Live Spell Win32 Prettier




```
Enter the no of cities:
4
Enter the matrix:
0 4 3 2
4 0 2 1
2 1 0 5
3 5 1 0
Cost is: 8
PS E:\College-Work\Sixth-Semester\DAA-practical\Practical-7>
```