

## Answer on Question#38291- Programming, C++

1. Problem:

A salesman travels from one to another state. he may visit either n=2,3,4,5 or 6 cities of punjab.

For every number of cities he may adopt different routes.

Some routes will be longer and other rwill be shorter.

We need to design a C++ Program.

\*TO DISPLAY EACH ROUTE FOR PARTICULAR NUMBER OF CITIES "n".

\*TO DISPLAY SHORTEST AND LONGEST ROUTE

Hint:

1:Develop a menu using switch

2: Enter tthe distance using two dimentional array.

I have made the switch menu but i dont know how to do it if anyone can help me out

### Solution.

```
#include <iostream>

using namespace std;

int main(int argc, char* argv[])
{
    int dist[6][2]={0};
    cout<<" Enter the distance: "<<endl;
    for(int i=0; i<6; i++)
    {
        cout<<endl<<"Start: ";
        cin>>dist[i][0];
        cout<<endl<<"End: ";
        cin>>dist[i][1];
    }

    int iMenu=0,n=0;
    cout<<"1. Display the route for a particular city"<<endl;
    cout<<"2. Show short and long route"<<endl;
    cout<<"Enter number corresponding menu item: ";
    cin>>iMenu;

    switch(iMenu)
    {
    case 1:
        { cout<<"Enter the number of city (0-5): "; cin>>n; cout<<"ROUTE:
"<<dist[n][1]-dist[n][0]<<endl; break;}
    case 2:
        { for(int i=0; i<6; i++){cout<<"ROUTE: "<<dist[i][1]-dist[i][0]<<endl;}
break;}

    default:break;
    }

    cin>>iMenu;
    return 0;
}
```

```
D:\Project\qqqq\Debug\qqqq.exe
Start: 20
End: 30
Start: 10
End: 20
Start: 10
End: 20
Start: 10
End: 20
Start: 10
End: 20
End: 20
1.*TO DISPLAY EACH ROUTE FOR PARTICULAR NUMBER OF CITIES "n".
2.*TO DISPLAY SHORTEST AND LONGEST ROUTE
Enter number corresponding menu item: 1
Enter NUMBER OF CITIES <0-5>: 2
ROUTE: 10
```