**INTRODUCTION**

**Title:** “**Travel Agency Management System**”

**Concepts Used:**

* Functions
* Arithmetic functions
* Member functions
* Variables
* Loops
* Breaks

This mini project entitled “**Travel Agency Management System**” is made to reduce the workload of various travel agencies around the globe.

This project basically provides different travel agencies with a software with the help of which these agencies can easily manage the facilities like **registration**, **display**, **modification, additional services** and **delete**. The user can easily get registered with the travelling agency which will provide them the with the travel packages of selected locations and with the help of which user can easily select where does he want to go and with how many members does he want to go along with? The software will then tell the user the total billing amount which user is supposed to pay to the respective travel agency.

The software also provides some other types of services such as **food** and **guide** which user can select, if he wishes to, after selecting his destination. The cost for availing these services will depend place to place and the number of days user will stay at that place. These charges will then be added to the concurrent bill.

There is also an option that if the user wants to extend his ongoing trip or not. If so then per day charges will be added to the concurrent bill.

The software, at the end, asks for the confirmation from the user whether to finalise it(YES) or NO.

1) If YES then the confirmation message will come with location and the total amount which user has to pay to the travelling agency.

2)If no then the software will request the user to select only from the above available locations or it will request the user to try again later when there will be more travel options available for the users.

So Here’s how this project can help various Travel Agencies all around the globe to make their work easier and less complex.

**SOURCE CODE**:

#include<iostream>

#include<stdlib.h>

using namespace std;

class travelworld

{

public:

long double y,z,a,b,c,p,amount;

int lo,n,d,dec;

char x[10];

void input()

{

cout<<"register on travel world\nenter your name : ";

cin>>x;

cout<<"enter your age : ";

cin>>y;

cout<<"enter mobile number: ";

cin>>z;

cout<<"create password only in numbers : ";

cin>>p;

}

void travelplan()

{

cout<<"sign in : "<<endl;

cout<<"enter your number : ";

cin>>b;

if(b == z)

{

cout<<"enter password : ";

cin>>c;

if(c==p)

{

cout<<"WELCOME";

}

while(c != p)

{

cout<<"enter correct password: ";

cin>>c;

if( c == p)

{

cout<<"WELCOME";

}

}

}

while (b != z)

{

cout<<"enter valid number : ";

cin>>b;

if(b == z)

{

cout<<"enter password : ";

cin>>c;

if( c == p)

{

cout<<"WELCOME";

}

while(c != p)

{

cout<<"enter correct password: ";

cin>>c;

if( c == p)

{

cout<<"WELCOME";

}

}

}

}

}

void select()

{

cout<<"select you plan: \n 1. Shimla\n 2.Bombay\n 3. Switzerland\nenter the number of plan: ";

cin>>lo;

switch(lo)

{

case 1:

cout<<"the total cost for 1 person will be 20,000 \n 5 day trip\n \t \t \t enter number of people going for the trip : ";

cin>>n;

cout<<(20000\*n);

break;

case 2:

cout<<"the total cost for 1 person will be 10,000 \n 5 day trip\n \t \t \t \t enter number of people going for the trip : ";

cin>>n;

cout<<(10000\*n);

break;

case 3:

cout<<"the total cost for 1 person will be 2,00,000 \n 5 day trip\n \t \t \t enter number of people going for the trip : ";

cin>>n;

cout<<(200000\*n);

break;

default:

cout<<"error \n enter number again :";

cin>>lo;

switch(lo)

{

case 1:

cout<<"the total cost for 1 person will be 20,000 \n 5 day trip\n \t \t \t enter number of people going for the trip : ";

cin>>n;

cout<<"\t \t \t \t total payable amount : "<<(20000\*n);

break;

case 2:

cout<<"the total cost for 1 person will be 10,000 \n 5 day trip\n \t \t \t enter number of people going for the trip : ";

cin>>n;

cout<<"\t \t \t \t total payable amount : "<<(10000\*n);

break;

case 3:

cout<<"the total cost for 1 person will be 2,00,000 \n 5 day trip\n \t \t \t enter number of people going for the trip : ";

cin>>n;

cout<<"\t \t \t \t total payable amount : "<<(200000\*n);

break;

}

}

}

void final(string s1, string s2)

{

char ans[3];

cout<<"\nWould you like to finalize your purchase : \nYES\nNO: ";

cin>>ans;

system("CLS");

if(ans == s1)

{

switch(lo)

{

case 1:

cout<<"destination: Shimla";

cout<<"\ntotal payable amount : "<<(20000\*n);

amount = (20000\*n);

break;

case 2:

cout<<"destination: Bombay";

cout<<"\ntotal payable amount : "<<(10000\*n);

amount = (10000\*n);

break;

case 3:

cout<<"destination: Switzerland";

cout<<"\ntotal payable amount : "<<(200000\*n);

amount = (200000\*n);

break;

}

cout<<"\ntype of services you want to add other than hotel and traveling: \n1.food\n2.guide\n3.for both food and guide\n4.none";

cin>>d;

switch(d)

{

case 1:

cout<<"food will have extra charges per day depending on the place: ";

switch(lo)

{

case 1:

amount = (20000\*n)+(5000\*n);

cout<<"destination: Shimla\ncharges per head 1000";

cout<<"\ntotal payable amount per day: "<<(1000\*n);

cout<<"\ntotal amount after food for 5 days: "<<amount;

break;

case 2:

amount = (10000\*n)+(2500\*n);

cout<<"destination: Bombay\ncharges per head 500";

cout<<"\ntotal payable amount : "<<(500\*n);

cout<<"\ntotal amount after food for 5 days: "<<amount;

break;

case 3:

amount = (200000\*n)+(50000\*n);

cout<<"destination: Switzerland\ncharges per head 10000";

cout<<"\ntotal payable amount per day: "<<(10000\*n);

cout<<"\ntotal amount after food for 5 days: "<<amount;

break;

}

break;

case 2:

cout<<"it will depend on the place and per day amount";

switch(lo)

{

case 1:

amount = (20000\*n)+(5000\*n);

cout<<"destination: Shimla\ncharges per head 1000";

cout<<"\ntotal payable amount per day: "<<(1000\*n);

cout<<"\ntotal amount after food for 5 days: "<<amount;

break;

case 2:

amount = (10000\*n)+(2500\*n);

cout<<"destination: Bombay\ncharges per head 500";

cout<<"\ntotal payable amount : "<<(500\*n);

cout<<"\ntotal amount after food for 5 days: "<<amount;

break;

case 3:

amount = (200000\*n)+(50000\*n);

cout<<"destination: Switzerland\ncharges per head 10000";

cout<<"\ntotal payable amount per day: "<<(10000\*n);

cout<<"\ntotal amount after food for 5 days: "<<amount;

break;

}

break;

case 3:

cout<<"it will depend on the place and per day amount";

switch(lo)

{

case 1:

amount = 2\*((20000\*n)+(5000\*n));

cout<<"destination: Shimla\ncharges per head 2000";

cout<<"\ntotal payable amount per day: "<<(1000\*n);

cout<<"\ntotal amount after food for 5 days: "<<amount;

break;

case 2:

amount = 2\*((10000\*n)+(2500\*n));

cout<<"destination: Bombay\ncharges per head 1000";

cout<<"\ntotal payable amount : "<<(500\*n);

cout<<"\ntotal amount after food for 5 days: "<<amount;

break;

case 3:

amount = 2\*((200000\*n)+(50000\*n));

cout<<"destination: Switzerland\ncharges per head 20000";

cout<<"\ntotal payable amount per day: "<<(20000\*n);

cout<<"\ntotal amount after food for 5 days: "<<amount;

break;

}

break;

default:

cout<<"invalid input";

}

char answer[3];

cout<<" \ndo you want to extend your trip by any days :";

cin>>answer;

if(answer == s1)

{

cout<<"increase it by how many days";

cin>>dec;

amount = amount \* dec;

switch(lo)

{

case 1:

cout<<"destination: Shimla";

cout<<"\ntotal payable amount : "<<amount;

break;

case 2:

cout<<"destination: Bombay";

cout<<"\ntotal payable amount : "<<amount;

break;

case 3:

cout<<"destination: Switzerland";

cout<<"\ntotal payable amount : "<<amount;

break;

}

}

else if(answer == s2)

{

cout<<"thank you for your purchase you final details are: ";

switch(lo)

{

case 1:

cout<<"destination: Shimla";

cout<<"total no. of days : "<<(5+dec);

cout<<"\ntotal payable amount : "<<amount;

break;

case 2:

cout<<"destination: Bombay";

cout<<"total no. of days : "<<(5+dec);

cout<<"\ntotal payable amount : "<<amount;

break;

case 3:

cout<<"destination: Switzerland";

cout<<"total no. of days : "<<(5+dec);

cout<<"\ntotal payable amount : "<<amount;

break;

}

}

else

{

cout<<"invalid";

switch(lo)

{

case 1:

cout<<"destination: Shimla";

cout<<"total no. of days : 5";

cout<<"\ntotal payable amount : "<<amount;

break;

case 2:

cout<<"destination: Bombay";

cout<<"total no. of days : 5";

cout<<"\ntotal payable amount : "<<amount;

break;

case 3:

cout<<"destination: Switzerland";

cout<<"total no. of days : 5";

cout<<"\ntotal payable amount : "<<amount;

break;

}

}

}

else if( ans == s2)

{

cout<<"sorry but have only these packs we will update you when we have new packs ";

}

else

{

cout<<"Invalid";

}

}

};

int main()

{

travelworld tw;

tw.input();

system("CLS");

tw.travelplan();

tw.select();

string s1("YES");

string s2("NO");

tw.final(s1,s2);

return 0;

}

**POSSIBLE OUTPUTS:**

A screenshot of a cell phone

Description automatically generated

A close up of a screen

Description automatically generated

A close up of a logo

Description automatically generated