#include<ctype.h>

#include<string.h>

#include <bits/stdc++.h>

#include<windows.h>

#include<conio.h>

#include<cwchar>

#include<stdio.h>

#include<iomanip>

#include<iostream>

#include<dos.h>

#include<fstream>

#include<time.h>

#include<ctype.h>

#include<cstdio>

using namespace std;

int atr1,atr2,rtr1,rtr2,ttr1,ttr2;

int fst1,fst2,tst1,tst2,nst1,nst2;

COORD coord = {0, 0};

void gotoxy (int x, int y)

{

coord.X = x; coord.Y = y;

SetConsoleCursorPosition(GetStdHandle(STD\_OUTPUT\_HANDLE), coord);

}

class place

{

public:

int places()

{

int toasspri;

cout<<"PLEASE CHOOSE YOUR DESTINATION.."<<endl<<endl;

cout<<"1:Kashmir or Jammu "<<endl;

cout<<"2:Chandigarh or Gurgaon"<<endl;

cout<<"3:Amritsar or Ludhiana "<<endl;

cout<<"4: Shimla or Manali"<<endl;

cout<<"5:Trivandrum or Kochi "<<endl;

cout<<"6: Chennai or Bangalore"<<endl;

cout<<"7:Hyderabad or Nagpur"<<endl;

cout<<"8: Mumbai or Pune "<<endl;

cout<<"9:Port blair or Rangat"<<endl;

cout<<"10: Guwahati"<<endl;

cout<<"11:Itanagar or Bomdila"<<endl;

cout<<"12: Patna or Gaya "<<endl;

cout<<"13:Calcutta or Darjiling "<<endl;

cout<<"14: Lucknow or Kanpur "<<endl;

cout<<"15:Ahmedabad or Gandhinagar"<<endl;

cout<<"16: Jaipur or Jodhpur "<<endl;

cout<<"17:Bhubneshwar or Cuttack"<<endl;

cout<<"18: Bhopal or Gwalior "<<endl;

cout<<"Enter (1-18) to Reserve ..."<<endl;

cin>>toasspri;

return toasspri;

}

};

class pricing

{

public:

void assignprice()

{

place p1;

system("cls");

int price1=0;

price1=p1.places();

switch(price1)

{

case 1:

fst1=5000;fst2=3000;tst1=3000;tst2=1500;nst1=1000;nst2=500;

atr1=12000;atr2=9000;ttr1=2500;ttr2=2000;rtr1=700;rtr2=500;

break;

case 2:

atr1=10000;atr2=8000;ttr1=1500;ttr2=1000;rtr1=300;rtr2=200;

fst1=5000;fst2=3000;tst1=3000;tst2=1500;nst1=1000;nst2=500;

break;

case 3:

atr1=8000;atr2=6000;ttr1=1200;ttr2=1000;rtr1=300;rtr2=200;

fst1=5000;fst2=3000;tst1=3000;tst2=1500;nst1=1000;nst2=500;

break;

case 4:

atr1=10000;atr2=8000;ttr1=2000;ttr2=1000;rtr1=800;rtr2=500;

fst1=4000;fst2=3000;tst1=3000;tst2=1500;nst1=800;nst2=500;

break;

case 5:

atr1=15000;atr2=12000;ttr1=3500;ttr2=2000;rtr1=1200;rtr2=700;

fst1=5000;fst2=3000;tst1=3000;tst2=1500;nst1=1000;nst2=500;

break;

case 6:

atr1=15000;atr2=12000;ttr1=3500;ttr2=2000;rtr1=1200;rtr2=700;

fst1=5000;fst2=3000;tst1=3000;tst2=1500;nst1=1000;nst2=500;

break;

case 7:

atr1=9000;atr2=7000;ttr1=1200;ttr2=1000;rtr1=700;rtr2=500;

fst1=5000;fst2=3000;tst1=3000;tst2=1500;nst1=1000;nst2=500;

break;

case 8:

atr1=11000;atr2=9000;ttr1=2000;ttr2=1000;rtr1=800;rtr2=500;

fst1=5000;fst2=4000;tst1=3000;tst2=1500;nst1=800;nst2=500;

break;

case 9:

atr1=15000;atr2=12000;ttr1=2000;ttr2=1000;rtr1=0;rtr2=0;

fst1=4000;fst2=3000;tst1=3000;tst2=1500;nst1=800;nst2=500;

break;

case 10:

atr1=12000;atr2=9000;ttr1=2500;ttr2=2000;rtr1=700;rtr2=500;

fst1=5000;fst2=3000;tst1=3000;tst2=1500;nst1=1000;nst2=500;

break;

case 11:

atr1=11000;atr2=9000;ttr1=4500;ttr2=2000;rtr1=800;rtr2=600;

fst1=5000;fst2=3000;tst1=3000;tst2=1500;nst1=1000;nst2=500;

break;

case 12:

atr1=8000;atr2=6000;ttr1=1200;ttr2=1000;rtr1=300;rtr2=200;

fst1=5000;fst2=3000;tst1=3000;tst2=1500;nst1=1000;nst2=500;

break;

case 13:

atr1=12000;atr2=10000;ttr1=2000;ttr2=1000;rtr1=800;rtr2=500;

fst1=4000;fst2=3000;tst1=3000;tst2=1500;nst1=800;nst2=500;

break;

case 14:

atr1=10000;atr2=8000;ttr1=2000;ttr2=1000;rtr1=800;rtr2=500;

fst1=4000;fst2=3000;tst1=3000;tst2=1500;nst1=800;nst2=500;

break;

case 15:

atr1=12000;atr2=9000;ttr1=2500;ttr2=2000;rtr1=700;rtr2=500;

fst1=4000;fst2=2000;tst1=2000;tst2=1500;nst1=1000;nst2=500;

break;

case 16:

atr1=10000;atr2=8000;ttr1=1500;ttr2=1000;rtr1=300;rtr2=200;

fst1=5000;fst2=3000;tst1=3000;tst2=1500;nst1=1000;nst2=500;

break;

case 17:

atr1=13000;atr2=10000;ttr1=2500;ttr2=2000;rtr1=700;rtr2=500;

fst1=5000;fst2=3000;tst1=3000;tst2=1500;nst1=1000;nst2=500;

break;

case 18:

atr1=10000;atr2=8000;ttr1=1500;ttr2=1000;rtr1=300;rtr2=200;

fst1=5000;fst2=3000;tst1=3000;tst2=1500;nst1=1000;nst2=500;

break;

}

}

};

class customer

{

protected:

int customer\_id;

char customer\_name[30],customer\_mobile[10],customer\_email[20],customer\_address[50];

};

class hotel:public customer

{

private:

int not1,not2,nor,top,nod,noc,kor1=0,kor2=0,top2; //DATA MEMBERS IN PRIVATE AREA

friend class pricing;

//payment \*p1;

char destination[30];

char ho[30];

char trans[30];

char flag1;

char flag2;

float price=14000;

public:

hotel(){kor1=0;kor2=0;price=14000;}

pricing pr;

void getdata();

void write();

void showdata();

void showhotelrec();

void delhotelrec();

void searchhotrec();

void edithoteldata();

void transferhoteldata1();

};

void hotel::getdata()

{

system("cls");

flag2='N';

system("cls");

cout<<"\t\t\tPlease Enter Information For Hotel Reservation\n\n";

cout<<"\t\t\tPlease enter the choice of your hotel......\n\n";

cout<<"\t\t\t1: 5 Star\n";

cout<<"\t\t\t2: 3 Star\n";

cout<<"\t\t\t3: Normal\n"<<endl;

cout<<"......";

cin>>top;

//calpayment1(p1);

system("cls");

cout<<"PLEASE FILL IN THE DETAILS ...";

cout<<endl;

cout<<"HOTEL RESERVATION FORM";

cout<<endl;

cout<<"Guestid:";

cin>>customer\_id;

cout<<"Name: ";

cin>>customer\_name;

cout<<"Address: ";

cin>>customer\_address;

cout<<endl;

pr.assignprice();

cout<<"Name of Hotel: ";

cin>>ho;

cout<<"No. of days to stay: ";

cout<<endl;

cin>>nod;

cout<<endl;

cout<<"type of rooms u want to reserve";

cout<<endl;

cout<<"1.DELUXE";

cout<<"2.NON DELUXE";

int a;

cin>>a;

switch(a)

{

case 1:

cout<<"NUMBERS OF DELUX ROOMS REQUIRED:\n";

cin>>kor1;

break;

case 2:

cout<<"NUMBERS OF NON DELUX ROOMS REQUIRED:\n";

cin>>kor2;

break;

}

if(top==1)

price=(fst1\*kor1\*nod)+(fst2\*kor2\*nod);

else

if(top==2)

price=(tst1\*kor1\*nod)+(tst2\*kor2\*nod);

else

if(top==3)

price=(nst1\*kor1\*nod)+(nst2\*kor2\*nod);

}

void hotel::write()

{

fstream file1;

file1.open("hotel.dat",ios::binary|ios::out|ios::app);

file1.write((char\*)this,sizeof(\*this));

file1.close();

}

void hotel::showdata()

{

system("cls");

system("color 90");

cout<<"\t\t\t\t\t Hotel Reservation\t\t\t\t\t ";

cout<<endl<<endl;

cout<<"\t\t\t\t\t-----------------------\t\t\t\t\t\t";

cout<<customer\_id;

cout<<endl<<endl;

cout<<"Name:"<<customer\_name;

cout<<endl<<endl;

cout<<"Address:"<<customer\_address;

cout<<endl<<endl;

cout<<"Name of the hotel: "<<ho;

cout<<endl<<endl;

cout<<"No. of Days to stay: "<<nod;

cout<<endl<<endl;

cout<<"No. of DELUXE rooms reserved: "<<kor1;

cout<<endl<<endl;

cout<<"No. of NON-DELUXE rooms reserved: "<<kor2;

cout<<endl<<endl;

cout<<"Your Reservations have been done"<<endl<<endl;

cout<<"Please pay the Amount!!!"<<endl<<endl;

cout<<"Amount: Rs."<<price;

}

void hotel::delhotelrec()

{

system("cls");

system("color F5");

int gid;

cout<<"Enter id of person whose record you want to delete"<<endl;

cin>>gid;

fstream file1,file2;

int del=0;

file1.open("hotel.dat",ios::binary | ios::in);

file2.open("temp.dat",ios::binary | ios::out);

while(file1.read ((char\*)this,sizeof (\*this)))

{

if (gid!=customer\_id)

file2.write((char\*)this,sizeof (\*this));

else

del++;

}

if(del!=0)

{

cout<<endl<<" Record Deleted......................................................";

flag2='Y';

}

else

cout<<endl<<"Record not found..";

file1.close();

file2.close();

remove("hotel.dat");

rename("temp.dat","hotel.dat");

}

void hotel::searchhotrec()

{

system("cls");

system("color B0");

char sname[20];

cout<<"enter the Name to search for..";

cout<<endl<<endl;

cin>>sname;

fstream file1;

file1.open("hotel.dat",ios::binary | ios::in);

int srch=0;

while(!file1.eof())

{

file1.read((char\*)this,sizeof(\*this));

if(!strcmp(customer\_name,sname))

{

srch++;

showdata();

}

}

if(srch==0)

cout<<"No Record Exists";

file1.close();

}

void hotel::edithoteldata()

{

system("cls");

system("color C7");

char ename[30];int ede=0;

cout<<"Enter Name to Edit Record for...";

cout<<endl<<endl;

cin>>ename;

fstream file1,fout;

file1.open("hotel.dat",ios::binary | ios::in) ;

fout.open("temp1.dat",ios::binary | ios::out ) ;

while(file1.read((char\*)this,sizeof(\*this)))

{

if (strcmp (ename,customer\_name)==0)

{

getdata();

ede++;

}

fout.write((char\*)this,sizeof (\*this));

}

if(ede==0)

{

cout<<"RECORD DOESNT EXIST!!!!";

}

file1.close();

fout.close();

transferhoteldata1(); //TO TRANSFER EDITED HOTEL RECORD

}

void hotel::transferhoteldata1()

{

fstream fout,file1;

fout.open("temp1.dat",ios::binary | ios::in);

file1.open("hotel.dat",ios::binary | ios::out);

while(fout.read((char\*)this,sizeof(\*this)))

file1.write((char\*)this,sizeof (\*this));

fout.close();

file1.close();

}

void hotel::showhotelrec()

{

system("cls");

system("color 06");

cout<<"\t\t\t\t\t\t\t SHOWING THE RESERVATION \t\t\t\t\t";

cout<<endl<<endl;

if(flag2=='Y')

cout<<"RECORD WITH GUESTID:"<<customer\_id << " HAS BEEN DELETED"<<endl;

ifstream file1;

file1.open("hotel.dat",ios::in|ios::binary);

file1.read((char\*)this,sizeof(\*this));

while(!file1.eof()){

showdata();

file1.read((char\*)this,sizeof(\*this));

}

file1.close();

}

//////////// transport class/////////////

class transport:public customer

{

char destination[100];

char trans[10];

int not1,not2,flag2,top2,price2=12000;

friend class pricing;

pricing pr1;

public:

void res();

void write1();

void show();

void del();

void searchrec();

void editdata();

void showrec();

void transferdata();

};

void transport::res()

{

system("cls");

system("color 60");

cout<<"\t\t\t\tPlease Enter Information For Transport Reservation \n -.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.- \n";

cout<<"\t\t\t\tPlease enter the choice of your mode of transportaion......\n\n";

cout<<"\t\t1: by Air\n";

cout<<"\t\t2: by Train\n";

cout<<"\t\t3: by Road\n"<<endl;

cout<<"......"<<endl;

cin>>top2;

if(top2==1)

strcpy(trans,"By Air");

if(top2==2)

strcpy(trans,"By Train");

if (top2==3)

strcpy(trans,"By Road");

system("cls");

cout<<"\n\nPLEASE FILL IN THE DETAILS ..."<<"\n-----------------------------------------------------------------\n";

cout<<"\n\n\n\tTRANSPORT RESERVATION FORM\n\n";

cout<<"\n\tCUSTOMER ID:";

cin>>customer\_id;

cout<<"\n\tName: ";

cin>>customer\_name;

cout<<"\n\tAddress: ";

cin>>customer\_address;

pr1.assignprice();

cout<<"\n\tType of Tickets to be Reserved(1/0)" ;

cout<<"\n\tExecutive: "; cin>>not1;

cout<<"\n\tEconomy: ";cin>>not2;

if(top2==1)

price2=(atr1\*not1)+(atr2\*not2);

else

if(top2==2)

price2=(ttr1\*not1)+(ttr2\*not2);

else

if(top2==3)

price2=(rtr1\*not1)+(rtr2\*not2);

}

void transport::write1()

{

fstream file3;

file3.open("trfile.dat",ios::out|ios::app|ios::binary);

file3.write((char\*)this,sizeof(\*this));

file3.close();

}

void transport::show()

{

system("cls");

system("color 90");

cout<<"\nTransport Reservation \n "<<endl;

cout<<"-----------------------";

cout<<"\nCUSTOMER ID:"<<customer\_id<<endl;

cout<<"\nName:"<<customer\_name<<endl;

cout<<"\nAddress:"<<customer\_address<<endl;

cout<<"\nMode of transportation: "<<trans<<endl;

cout<<"\nNo. of EXECUTIVE class tickets reserved: "<<not1<<endl;

cout<<"\nNo. of ECONOMY class tickets reserved: "<<not2<<endl;

cout<<"\nYour Reservations have been done Please pay the Amount!!!"<<endl;

cout<<"\nAmount: Rs."<<price2<<endl;

}

void transport::del()

{

system("cls");

system("color F5");

int tid;

cout<<"\n\t\tEnter id of person whose record you want to delete"<<endl;

cin>>tid;

fstream file3,file4;

int dele=0;

file3.open("trfile.dat",ios::binary|ios::in);

file4.open("tempe.dat",ios::binary|ios::out);

while(file3.read((char\*)this,sizeof(\*this)))

{

if(tid!=customer\_id)

file4.write((char\*)this,sizeof(\*this));

else

dele++;

}

if(dele!=0)\

{

cout<<endl<<"Record Deleted...";

flag2='Y';

}

else

cout<<endl<<"Record not found..";

file3.close();

file4.close();

remove("trfile.dat");

rename("tempe.dat","trfile.dat");

}

void transport::searchrec()

{

system("cls");

system("color B0");

char sename[20];

cout<<"\n\t\t\tEnter Name to search for..";

cout<<endl<<endl;

cin>>sename;

fstream file3;

file3.open("trfile.dat",ios::binary | ios::in);

int serch=0;

while( !file3.eof())

{

file3.read((char\*)this,sizeof(\*this));

if(!strcmp(customer\_name,sename))

{

serch++;

show();

}

}

if(serch==0)

cout<<"No record exists";

file3.close();

}

void transport ::editdata()

{

system("cls");

system("color C7");

char edname[30];

int ede1=0;

cout<<"Enter Name to Edit Record for...";

cout<<endl<<endl;

cin>>edname;

fstream file3,file5;

file3.open("trfile.dat",ios::binary | ios::in) ;

file5.open("tempnew.dat",ios::binary | ios::out ) ;

while(file3.read((char\*)this,sizeof(\*this)))

{

if (strcmp (edname,customer\_name)==0)

{

res();

ede1++;

}

file5.write((char\*)this,sizeof (\*this));

}

if(ede1==0)

{

cout<<"RECORD DOESNT EXIST!!!!";

}

file3.close();

file5.close();

transferdata();

}

void transport::transferdata()

{

fstream file3,file5;

file5.open("tempnew.dat",ios::binary | ios::in);

file3.open("trfile.dat",ios::binary | ios::out);

while(file5.read((char\*)this,sizeof(\*this)))

file3.write((char\*)this,sizeof (\*this));

file5.close();

file3.close();

}

void transport::showrec()

{

system("cls");

system("color 06");

cout<<"\t\t\t\t\t\t\t SHOWING THE transport1 RESERVATION \t\t\t\t\t";

cout<<endl<<endl;

if(flag2=='Y')

cout<<"RECORD WITH GUESTID:"<<customer\_id<<"HAS BEEN DELETED"<<endl;

ifstream file3;

file3.open("trfile.dat",ios::in|ios::binary);

file3.read((char\*)this,sizeof(\*this));

while(!file3.eof())

{

show();

file3.read((char\*)this,sizeof(\*this));

}

file3.close();

}

//calling class

class base

{

public:

hotel ho;

transport tr;

int option;

public:

void call();

};

void base::call()

{

system("cls");

int option=0;

int no;

int choice;

while(option!=6)

{

CONSOLE\_FONT\_INFOEX cfi;

cfi.cbSize = sizeof(cfi);

cfi.nFont = 0;

cfi.dwFontSize.X = 0; // Width of each character in the font

cfi.dwFontSize.Y = 24; // Height

cfi.FontFamily = FF\_DONTCARE;

cfi.FontWeight = FW\_NORMAL;

wcscpy(cfi.FaceName, L"Times new roman"); // Choose your font

SetCurrentConsoleFontEx(GetStdHandle(STD\_OUTPUT\_HANDLE), FALSE, &cfi);

cout<<"\n\t\t\tH O W C A N I H E L P Y O U\n";

cout<<"\n\t\t1.Make a reservation";

cout<<"\n\t\t2.View a record";

cout<<"\n\t\t3.Delete a record";

cout<<"\n\t\t4.Search for a record";

cout<<"\n\t\t5.Edit a recor d";

cout<<"\n\t\t6: Exit... ";

cin>>option;

switch(option)

{

case 1 :

cout<<"\n\n\t\tEnter your choice\n";

cout<<"\n\t\t1.hotel reservation"<<endl;

cout<<"\n\t\t2.transport reservation"<<endl;

cin>>choice;

switch(choice)

{

case 1:

ho.getdata();

ho.write();

break;

case 2:

tr.res();

tr.write1();

break;

}

break;

case 2:

cout<<"\n\n\t\tEnter your choice\n";

cout<<"\n\t\t1.hotel reservation"<<endl;

cout<<"\n\t\t2.transport reservation"<<endl;

cin>>choice;

switch(choice)

{

case 1:

ho.showhotelrec();

break;

case 2:

tr.showrec();

break;

}

break;

case 3:

cout<<"\n\n\t\tEnter your choice\n";

cout<<"\n\t\t1.hotel reservation"<<endl;

cout<<"\n\t\t2.transport reservation"<<endl;

cin>>choice;

switch(choice)

{

case 1:

ho.delhotelrec();

break;

case 2:

tr.del();

break;

}

break;

case 4:

cout<<"\n\n\t\tEnter your choice\n";

cout<<"\n\t\t1.hotel reservation"<<endl;

cout<<"\n\t\t2.transport reservation"<<endl;

cin>>choice;

switch(choice)

{

case 1:

ho.searchhotrec();

break;

case 2:

tr.searchrec();

break;

}

break;

case 5:

cout<<"\n\n\t\tEnter your choice\n";

cout<<"\n\t\t1.hotel reservation"<<endl;

cout<<"\n\t\t2.transport reservation"<<endl;

cin>>choice;

switch(choice)

{

case 1:

ho.edithoteldata();

break;

case 2:

tr.editdata();

break;

}

break;

case 6:

exit(0);

break;

}

cout<<"enter any number";

cin>>no;

system("cls");

}

}

int main()

{

int a;

for(a=50;a>30;a--)

{

system("cls");

system("color 57");

gotoxy(25,10);cout<<"Welcome to the TRAVEL AGENCY";

Sleep(50);

}

for(a=42;a<52;a++)

{

gotoxy(27,18);cout<<"Please Wait";

gotoxy(a,18);cout<<".";

Sleep(400);

}

system("cls");

system("color A0");

for(int j=0;j<10;j++)

{

system("cls");

gotoxy(j,6); cout<<" ÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍ";

gotoxy(j,7); cout<<" ÜÜÜÜÜÜÜ ÜÜÜÜÜÜ ÜÜÜÜÜÜ";

gotoxy(j,8); cout<<" Û Û Û Û Û";

gotoxy(j,9); cout<<" Û ÛÜÜÜÛ ÛÜÜÜÜÛ";

gotoxy(j,10);cout<<" Û Û Û Û Û";

gotoxy(j,11);cout<<" Û Û ÛÛ Û Û";

gotoxy(51-j,6); cout<<"ÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍ \n\r";

gotoxy(51-j,7); cout<<" Ü Ü ÜÜÜÜÜÜ Ü \n\r";

gotoxy(51-j,8); cout<<" Û Û Û Û \n\r";

gotoxy(51-j,9); cout<<" Û Û ÛÜÜÜ Û \n\r";

gotoxy(51-j,10);cout<<" Û Û Û Û \n\r";

gotoxy(51-j,11);cout<<" ÛÛ ÛÛÛÛÛÛ ÛÛÛÛ \n\r\n\n";

gotoxy(j,12);cout<<" ÜÜÜÜÜÜÜ Ü Ü";

gotoxy(j,13);cout<<" Û ÛÛ Û";

gotoxy(j,14);cout<<" Û Û Û Û";

gotoxy(j,15);cout<<" Û Û Û Û";

gotoxy(j,16);cout<<" ÜÜÜÛÜÜÜ Û ÛÛ";

gotoxy(j,17);cout<<" ÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍ";

gotoxy(58-j,12);cout<<" ÜÜÜÜÜÜ ÜÜÜÜÜÜÜ ÜÜÜÜÜÜ \n\r";

gotoxy(58-j,13);cout<<" Û Û Û Û Û \n\r";

gotoxy(58-j,14);cout<<" Û Û Û ÛÜÜÜÜÛ \n\r";

gotoxy(58-j,15);cout<<" Û Û Û Û Û \n\r";

gotoxy(58-j,16);cout<<" ÛÜÜÜÜÛ ÜÜÜÛÜÜÜ Û Û \n\r";

gotoxy(58-j,17);cout<<"ÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍ \n\r";

int x;

Sleep(80);

}

gotoxy(25,25);

cout<<"press any key to continue...";

getch();

base b;

b.call();

}