#include<iostream.h>

#include<conio.h>

#include<string.h>

#include<stdlib.h>

#include<iomanip.h>

#include<fstream.h>

#include<math.h>

#include<ctype.h>

#include<dos.h>

#define line "\t-------------------------------------------------------------------"

struct Name

{

char first[50] ,mid[50] ,last[50];

};

struct Address

{

int hno;

char area[50] ,city[50] ,state[50];

};

struct Date

{

int day ,mon ,year;

};

struct Hotel

{

int bno, rno;

Name cna;

Address addr;

Date ci, co;

char occu[25];

int rt;

int type;

int n;

char cf[25],gt[25];

long bill;

}H;

void faci()

{ cout<<"\n\n\n\n"<<line<<endl<<"\n\t\tFACILITIES:\n\n"

<<line<<"\n\n\n\n";

cout<<"\n\t\t1.BAR 400/-\n"<<

"\n\t\t2.RESTAURANT 600/-\n"<<

"\n\t\t3.SWIMMING POOL 300/-\n"<<

"\n\t\t4.HEALTH CLUB 400/-\n"<<

"\n\t\t5.COMMUNICATION FACILITIES 200/-\n"<<

"\n\t\t6.TRANSPORT FACILITIES 5000/-\n"<<

"\n\t\t7.TOURISM 1500/-\n"<<

"\n\n\n\t Charges Are Calculated Per Day.\n\n"<<line;

}

void room()

{ cout<<"\n\n\n\n"<<line<<endl<<"\t\tROOM TYPES:\n\n"

<<line<<"\n\n\n\n";

cout<<"\n\t\t1.SINGLE ROOM 900/-\n"<<

"\n\t\t2.DOUBLE ROOM 1200/-\n"<<

"\n\t\t3.SINGLE A.C.ROOM 1500/-\n"<<

"\n\t\t4.DOUBLE A.C.ROOM 2000/-\n"<<

"\n\t\t5.PRESIDENT SUIT 4500/-\n"<<

"\n\n\n\t Charges Are Calculated Per Day.\n\n"<<line;

}

struct roomno

{ int rn;

int p;

} r;

void otpt()

{ cout<<"\t\tROOMNO: "<<r.rn;

if(r.p==1)

{textcolor(5); cprintf("\tBOOKED");

textcolor(RED);}

else

cout<<"\tUNBOOKED";

}

void book()

{ clrscr(); getch();

int q;int c,x; c=x=0;

fstream f;

f.open("C:\TC\PROJECT\PARADISE\room",ios::in| ios::out| ios::binary);

if(!f)

{ cout<<"Cannot open file !!";

return;

}

f.seekg(0,ios::beg);

while(f.read((char\*)&r,sizeof(r)))

{ otpt();

cout<<"\n";

} f.close();

f.open("C:\TC\PROJECT\PARADISE\room",ios::in| ios::out| ios::binary);

if(!f)

{ cout<<"Cannot open file !!";

return;

}

top:

cout<<"\n\n\t\tEnter the room number\t";

cin>>q;

f.seekg(0,ios::beg);

while(f.read((char\*)&r,sizeof(r)))

{x++;

if(q==r.rn && r.p!=1)

{ cout<<"ROOM BOOKED";

r.p=1; c=9;

f.seekp((x-1)\*sizeof(r),ios::beg);

f.write((char\*)&r,sizeof(r));

break;

} }

if(c!=9)

{

cout<<"THIS ROOM IS ALREADY BOOKED"<<"\n"<<" SELECT ANOTHER ROOM";

goto top;

}

f.close(); H.rno=q;

}

void report()

{ clrscr(); fstream f;

f.open("C:\TC\PROJECT\PARADISE\room",ios::in| ios::out| ios::binary);

if(!f)

{ cout<<"CANNOT OPEN FILE !!";

return;

}

cout<<line<<"\n\n\n\tROOM REPORT:-\n\n";

f.seekg(0,ios::beg);

while(f.read((char\*)&r,sizeof(r)))

{ otpt();

cout<<"\n";

}

cout<<endl<<endl<<line;

f.close();cout<<"\n\n\n\n\n\n\n\n\n\n\n\n\n\t\t\t\t HOTEL PARADISE";

}

void booking()

{ clrscr();

cout<<"\n\n\t ENTER BOOKING NUMBER:- ";

cin>>H.bno;

cout<<"\n\t ENTER FIRST NAME:- ";

cin>>H.cna.first;

cout<<"\n\t ENTER MID NAME:- ";

cin>>H.cna.mid;

cout<<"\n\t ENTER LAST NAME:- ";

cin>>H.cna.last;

cout<<"\n\t -:ADDRESS:- ";cout<<endl;

cout<<"\n\t ENTER HNo.:- ";

cin>>H.addr.hno;

cout<<"\n\t ENTER Area:- ";

cin>>H.addr.area;

cout<<"\n\t ENTER City:- ";

cin>>H.addr.city;

cout<<"\n\t ENTER State:- ";

cin>>H.addr.state;

cout<<"\n\t -:ENTER THE DATE OF CHECKIN:- ";cout<<endl;

cout<<"\n\t DAY:- ";

cin>>H.ci.day;

cout<<"\n\t MONTH:- ";

cin>>H.ci.mon;

cout<<"\n\t YEAR:- ";

cin>>H.ci.year;

cout<<"\n\t -:ENTER THE DATE OF CHECKOUT:- ";cout<<endl;

cout<<"\n\t DAY:- ";

cin>>H.co.day;

cout<<"\n\t MONTH:- ";

cin>>H.co.mon;

cout<<"\n\t YEAR:- ";

cin>>H.co.year;

H.n=H.co.day-H.ci.day;

cout<<"\n\t ENTER OCCUPATION:- ";

cin>>H.occu;

cout<<"\n\t CUSTOMER COMING FROM:- ";

cin>>H.cf;

cout<<"\n\t CUSTOMER GOING TO:- ";

cin>>H.gt;clrscr();

top:

cout<<"\n\n\tCHOOSE & ENTER NUMBER OF ROOM TYPE:-\n\n\t ";

room();

cin>>H.rt;

switch(H.rt)

{case 1:H.type='1';

H.bill=2000+900\*H.n;break;

case 2:H.type='2';

H.bill=2000+1200\*H.n;break;

case 3:H.type='3';

H.bill=2000+1500\*H.n;break;

case 4:H.type='4';

H.bill=2000+2000\*H.n;break;

case 5: H.type='5';

H.bill=2000+4500\*H.n;break;

default:{cout<<"\n\n\t\tINVALID CHOICE!"<<

"\n\tENTER AGAIN.....\n\n\t";

goto top;}}

book();

getch();

}

void type()

{ switch(H.rt)

{case 1:H.type='1';

cout<<"SINGLE"; break;

case 2:H.type='2';

cout<<"DOUBLE"; ;break;

case 3:H.type='3';

cout<<"A.C.SINGLE";break;

case 4:H.type='4';

cout<<"A.C.DOUBLE";break;

case 5: H.type='5';

cout<<"PRESIDENT SUIT";break;

} }

void display()

{ fstream fio;

fio.open("C:\TC\PROJECT\PARADISE\hotel",ios::in| ios::out| ios::binary);

if(!fio)

cout<<"SORRY! CANNOT OPEN FILE....."; clrscr();

fio.seekg(0,ios::beg);

while(!fio.eof())

{ fio.read((char\*)&H,sizeof(H));clrscr();

cout<<endl<<endl<<endl<<line

<<"\n\n\t\tBNO: "<<H.bno

<<"\n\n\t\tRNO: "<<H.rno

<<"\n\n\t\tROOM TYPE: ";type();

cout<<"\n\n\t\tNAME: "<<H.cna.first<<" "<<H.cna.mid<<" "

<<H.cna.last<<" "

<<"\n\n\t\tADDRESS: "<<H.addr.hno<<","<<H.addr.area<<","

<<H.addr.city<<","<<H.addr.state<<"."

<<"\n\n\t\tOCCUPATION: "<<H.occu

<<"\n\n\t\tCHECK IN: "<<H.ci.day<<"/"<<H.ci.mon<<"/"<<H.ci.year

<<"\n\n\t\tCHECK OUT: "<<H.co.day<<"/"<<H.co.mon<<"/"<<H.co.year

<<"\n\n\t\tBILL: "<<H.bill

<<"\n\n\t\tCOMING FROM: "<<H.cf

<<"\n\n\t\tGOING TO: "<<H.gt<<endl;

cout<<endl<<line; getch(); }

fio.close();

fio.clear();}

void add()

{ char ans;

fstream fio;

fio.open("C:\TC\PROJECT\PARADISE\hotel",ios::in| ios::out| ios::binary);

if(!fio)

cout<<"SORRY! CANNOT OPEN FILE.....";clrscr();

fio.seekp(0,ios::end);

do{ booking();

fio.write((char\*)&H,sizeof(H));

cout<<"WANT YOU TO ADD MORE ? (Y/N)...";

cin>>ans;}

while(toupper(ans)=='Y');

fio.close();}

void modify()

{ int e,r=0;

fstream fio;

fio.open("C:\TC\PROJECT\PARADISE\hotel",ios::in| ios::out| ios::binary);

if(!fio)

cout<<"SORRY! CANNOT OPEN FILE.....";fio.seekg(0,ios::beg);

cout<<"\t ENTER BOOKING NUMBER: "; cin>>e;

while(fio.read((char\*)&H,sizeof(H)))

{r++;

if(e==H.bno)

{ clrscr();

cout<<"\nCUSTOMER DETAILS ARE AS FOLLOWS:\n";

{cout<<endl<<endl<<endl<<line

<<"\n\n\t\tBNO: "<<H.bno

<<"\n\n\t\tRNO: "<<H.rno

<<"\n\n\t\tROOM TYPE: ";type;

cout<<"\n\n\t\tNAME: "<<H.cna.first<<" "<<H.cna.mid<<" "

<<H.cna.last<<" "

<<"\n\n\t\tADDRESS: "<<H.addr.hno<<","<<H.addr.area<<","

<<H.addr.city<<","<<H.addr.state

<<"\n\n\t\tOCCUPATION: "<<H.occu

<<"\n\n\t\tCHECK IN: "<<H.ci.day<<"/"<<H.ci.mon<<"/"<<H.ci.year

<<"\n\n\t\tCHECK OUT: "<<H.co.day<<"/"<<H.co.mon<<"/"<<H.co.year

<<"\n\n\t\tCOMING FROM: "<<H.cf

<<"\n\n\t\tGOING TO: "<<H.gt

<<"\n\n\tBILL: "<<H.bill<<endl;getch();}

cout<<endl<<line;

cout<<"\nENTER NEW DETAILS:\n";

booking();

fio.seekg((r-1)\*sizeof(H),ios::beg);

fio.write((char\*)&H,sizeof(H));

break;

} } fio.close(); }

void bill()

{ int e,r=0;

fstream fio;

fio.open("C:\TC\PROJECT\PARADISE\hotel",ios::in| ios::out| ios::binary);

if(!fio)

cout<<"SORRY! CANNOT OPEN FILE.....";

fio.seekg(0,ios::beg);

cout<<"\t ENTER BOOKING NUMBER: "; cin>>e;

while(fio.read((char\*)&H,sizeof(H)))

{ r++;

if(e==H.bno)

{ clrscr();

cout<<"\n CUSTOMERS DETAILS ARE AS FOLLOW:-\n";

cout<<"\n\t\t\t\t$$$$"

<<"\n\n\t\tBNO: "<<H.bno

<<"\n\n\t\tRNO: "<<H.rno

<<"\n\n\t\tROOM TYPE: ";type();

cout<<"\n\n\t\tNAME: "<<H.cna.first<<" "<<H.cna.mid<<" "

<<H.cna.last<<" "

<<"\n\n\t\tADDRESS: "<<H.addr.hno<<","<<H.addr.area<<","

<<H.addr.city<<","<<H.addr.state<<"."

<<"\n\n\t\tOCCUPATION: "<<H.occu

<<"\n\n\t\tCHECK IN: "<<H.ci.day<<"/"<<H.ci.mon<<"/"<<H.ci.year

<<"\n\n\t\tCHECK OUT: "<<H.co.day<<"/"<<H.co.mon<<"/"<<H.co.year

<<"\n\n\t\tCOMING FROM: "<<H.cf

<<"\n\n\t\tGOING TO: "<<H.gt

<<"\n\n\t\tDURATION: "<<H.n<<" days";

cout<<endl<<"\n\t\t\t\t$$$$";

cout<<"\n\n\tBILL:- "<<endl;

cout<<"\n\n\tFOOD CHARGES 1450/-\n";

switch(H.rt)

{ case 1:H.type='1';

cout<<"\n\tROOM CHARGES 900\*"<<H.n<<"="<<H.n\*900<<"/-";break;

case 2:H.type='2';

cout<<"\n\tROOM CHARGES 1200\*"<<H.n<<"="<<H.n\*1200<<"/-";break;

case 3:H.type='3';

cout<<"\n\tROOM CHARGES 1500\*"<<H.n<<"="<<H.n\*1200<<"/-";break;

case 4:H.type='4';

cout<<"\n\tROOM CHARGES 2000\*"<<H.n<<"="<<H.n\*2000<<"/-";break;

case 5: H.type='5';

cout<<"\n\tROOM CHARGES 4500\*"<<H.n<<"="<<H.n\*4500<<"/-";break;

}

cout<<"\n\n\tOTHER FACILITIES 450/-"

<<"\n\n\tTAX 100/-\n"<<line

<<"\n\n\tTOTAL TO BE PAID - "<<H.bill<<"/-\n" <<line;

cout<<"\n\n\n\n All Charges Are Calculated Per Day ";

cout<<"\n\n\t\t\t\t HOTEL PARADISE";

getch();}

} fio.close(); }

void main()

{{ clrscr();

char h=177;

for(int i=3;i<40;i++)

{ gotoxy(i,3);

cout<<h;

}

for(i=3;i<42;i++)

{ gotoxy(i,46);

cout<<h;

}

textcolor(6);

gotoxy(25,11); cout<<"A PROJECT OF COMPUTER SCIENCE ON:- ";

gotoxy(33,13); textcolor(5+BLINK); cout<<"HOTEL MANAGEMENT";

gotoxy(39,15); textcolor(3); cout<<"BY";

gotoxy(30,17); textcolor(14+BLINK); cout<<"Vishal Singh Saini";

gotoxy(32,18); textcolor(4+BLINK); cout<<"Dheeraj Khanna";

gotoxy(33,19); textcolor(6+BLINK); cout<<"Shivam Yadav";

gotoxy(26,20); textcolor(15); cout<<"CLASS:12th COMPUTER SCIENCE";

gotoxy(35,21); textcolor(5); cout<<"2015-2016";

gotoxy(23,22); textcolor(2+BLINK); cout<<"UNDER THE GUIDANCE OF:-";

gotoxy(45,22); textcolor(3+BLINK); cout<<"LALIT BHARADWAJ";

for(i=4;i<100;i++)

{ gotoxy(3,i);

cout<<h;

}

for(i=4;i<26;i++)

{ gotoxy(78,i);

cout<<h;

} getch();}

{

clrscr();

char h;

textcolor(BLUE+GREEN);

clrscr(); h=205;

for(int j=1;j<80;j++)

{ gotoxy(j,1);

cout<<h;

}

for( j=1;j<80;j++)

{ gotoxy(j,5);

cout<<h;

}

h=196;

for( j=1;j<79;j++)

{ gotoxy(j,6);

cout<<h;

}

gotoxy(1,6); h=218; cout<<h;

gotoxy(79,6);h=191; cout<<h;

h=179;

for( j=7;j<49;j++)

{ gotoxy(1,j);

cout<<h;

}

for( j=7;j<49;j++)

{ gotoxy(79,j);

cout<<h;

}

gotoxy(1,49);h=192;cout<<h;

h=196;

for( j=2;j<79;j++)

{ gotoxy(j,49);

cout<<h;

}

h=217; cout<<h;

h=196;

for( j=31;j<57;j++)

{ gotoxy(j,30);

cout<<h<<" ";

}

h=179;

for( j=31;j<49;j++)

{ gotoxy(30,j);cout<<h;

}

gotoxy(35,39); cout<<"SWIMMING POOL";

h=179;

for( j=31;j<49;j++)

{ gotoxy(57,j);cout<<h;

}

gotoxy(57,30);h=191; cout<<h;

gotoxy(30,49);h=192;cout<<h;

gotoxy(57,49); h=217; cout<<h;

h=196;

for( j=2;j<30;j++)

{ gotoxy(j,30);

cout<<h<<" ";

}

gotoxy(9,39); cout<<"BAR & DISCO";

h=179;

for( j=7;j<30;j++)

{ gotoxy(35,j);cout<<h;

}

gotoxy(15,15);cout<<"ROOMS";

for( j=7;j<30;j++)

{ gotoxy(57,j);cout<<h;

}

gotoxy(42,15);cout<<"RESTAURANT";

h=196;

for( j=58;j<78;j++)

{ gotoxy(j,23);

cout<<h<<" ";

}

gotoxy(64,15); cout<<"PARKING";

gotoxy(64,36); cout<<"GARDEN";

textcolor(YELLOW+BLINK); gotoxy(25,3);

cout<<"WELCOME to HOTEL PARADISE";

gotoxy(36,4); textcolor(RED);

cout<<"(VIEW)";

getch();

}

textcolor(RED);

int ch;

do

{ clrscr();

cout<<"\n\n\n\n"<<line<<endl<<line

<<"\n\n\t\t\t";textcolor(6+BLINK);

cout<<"WELCOME TO HOTEL PARADISE";

cout<<"\n\n"<<line<<endl<<line;

cout<<"\n\n\t\t\t\t";

textcolor(4); cout<<"....";cout<<"\n\n\n"<<

"\t\t\t\tMENU:\n"<<

"\n\n\t\t\t1.CHECK-IN:"<<

"\n\n\t\t\t2.FACILITIES:"<<

"\n\n\t\t\t3.ROOM-TYPES & CHARGES:"<<

"\n\n\t\t\t4.CUSTOMER INFORMATION:"<<

"\n\n\t\t\t5.CHECK-OUT:"<<

"\n\n\t\t\t0.EXIT:"<<

"\n\n\n\t\t\t\t....\n\n\n"<<

"\n\n\t\t\tENTER YOUR CHOICE.....";

cin>>ch;

switch(ch) {

case 1: fstream fio;

fio.open("C:\TC\PROJECT\PARADISE\hotel",ios::in| ios::out| ios::binary);

if(!fio)

cout<<"SORRY! CANNOT OPEN FILE.....";

fio.seekp(0,ios::end);

char ans='Y';

while(toupper(ans)=='Y')

{ booking();

fio.write((char\*)&H,sizeof(H));

cout<<"WANT YOU TO ADD MORE ? (Y/N)...";

cin>>ans;

}

fio.close();

getch();break;

case 2: clrscr();faci();

getch();break;

case 3: clrscr();room();

getch(); break;

case 4: int z;

do{

clrscr();

cout<<"\n\n\n\n"<<line;

cout<<"\n\n\t\tCUSTOMER INFORMATION:\n\n"

<<line<<"\n\n\n\n\t\t\t\t...."

"\n\n\n\t\t\tWHAT YOU WANT YOU TO DO ?\n"

<<"\n\n\n\t\t\t1.ADD RECORD:\n\n\t\t\t2.MODIFY RECORD:"<<

"\n\n\t\t\t3.DISPLAY RECORD:\n\n\t\t\t0.EXIT:\n\n\n"<<

"\t\t\t\t....\n\n\n\t\t\t YOUR CHOICE.....";

cin>>z;

if(z==1) { add() ;}

if(z==2) { modify() ;}

if(z==3) { display();}

}while(z!=0);

getch(); break;

case 5: do{

clrscr();

cout<<"\n\n\n\n"<<line;

cout<<"\n\n\t\tCUSTOMER CHECK-OUT:\n\n"

<<line<<"\n\n\n\n\t\t\t\t...."

"\n\n\n\t\t\tWHAT YOU WANT YOU TO DO ?\n"

<<"\n\n\n\t\t\t1.DISPLAY RECORD & BILL:\n\n\t\t\t2.REPLACE RECORD:"<<

"\n\n\t\t\t0.EXIT:\n\n\n"<<

"\t\t\t\t....\n\n\n\t\t\t YOUR CHOICE.....";

cin>>z;

if(z==1) { bill() ;}

if(z==2) { modify();}

} while(z!=0);

getch(); break;

case 6: report();

getch(); break;

case 0: exit(0);

default: cout<<"\nENTER THE RIGHT CHOICE.....";

getch(); break;

} }while(ch!=0);

}