

# Hotel Management System

## (without classes)

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//Header files
#include<iostream>
#include<string>
#include<conio.h>
#include<fstream>

using namespace std;

//functions prototypes
int order();
int roomtype();
int roomsize();
int rent(int *x,int *y);
void displaymenu();
void take_order();

//global structure
struct per_det{
    char name[100];    //character array
    int phone_number;
    string address;
};

//main function
main(){

    per_det p1;    //declaring structure variable

    int l,num, days,x,y,z,enter;    //declaring variables

    cout<<"\n";
    cout<<"-----\n";
    cout<<"||WELCOME TO OUR HOTEL||\n";
    cout<<"-----\n";

    l=order();    //calling order function and storing in variable l

    if (l==1){
        displaymenu();
        take_order();
    }
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else if (l==2){

    //entering data

    cout<<"\nPlease enter your name: \n";
    cin.ignore();
    cin.get(p1.name,100);
    cout<<"\nEnter your phone number: \n";
    cin>>p1.phone_number;
    cout<<"\nEnter your address: \n";
    cin.ignore();
    getline(cin, p1.address);

    //storing data in files

    fstream object;
    object.open("ourfile.txt",ios::in|ios::out|ios::app);
    object << "Name = "<<p1.name << ", " << "Phone no. = "<<p1.phone_number
<< ", " << "Address = "<<p1.address;

    cin.ignore();

    x=roomtype();
    y=roomsize();

    cout<<"\nEnter the number of rooms to be booked: ";
    cin>>num;
    z=rent(&x,&y);
    cout<<"\nEnter the number of days for which rooms need to be booked: ";
    cin>>days;
    cout<<"\n\n>>>Your charges will be "<<z*days*num;

    cout<<"\n\nDo you also want some food?\n";
    cout<<"If 'yes' enter 1: \n";
    cin>>enter;

    if(enter==1){
        displaymenu();
        take_order();
    }
    else
        cout<<"OK. THANK YOU!";
    }
}

int order(){
    int option;
    cout<<"\nHow can we help you today?\n\n";

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    cout<<"If want to order delicious food, Please enter 1\n";
    cout<<"If want to book a room, Please enter 2\n\n";
    cin>>option;
    if(option==1||option==2){
        return option;
    }
    else if (option!=1&&option!=2){
        cout<<"\n\nPlease Enter a valid number!\n\n\n";
        order();    //recursive function
        return option;
    }
}

int roomtype(){
    int a;
    do{
        cout<<"\nPlease select the type of room(Enter 1 or 2)\n";
        cout<<"1.AC \n2.Non-AC\n";
        cin>>a;}while(a!=1 && a!=2);

        if(a==1){
            cout<<"\n>>>you selected AC room"<<endl;
        }
        else if(a==2){
            cout<<"\n>>>You selected a Non AC room"<<endl;
        }
        return a;
    }
}

int roomsize(){
    int b;
    do{
        cout<<"\nPlease select size of room:"<<endl;
        cout<<"1.Single bed room\n2.Double bed room\n3.Triple bed room"<<endl;
        cin>>b;}while(b!=1 && b!=2 && b!=3);

        if(b==1){
            cout<<"\n>>>You have selected single bed room"<<endl;
        }
        else if(b==2){
            cout<<"\n>>>you have selected double bed room"<<endl;
        }
        else if(b==3){
            cout<<"\n>>>you have selected triple bed room\n"<<endl;
        }
        return b;
    }
}

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}

int rent(int *x,int *y){    //calling by address(use of pointers)
    int rent;
    if(*x==1&&*y==1)
        rent=3000;
    else if(*x==1&&*y==2)
        rent=3500;
    else if(*x==1&&*y==3)
        rent=4000;
    else if(*x==2&&*y==1)
        rent=2000;
    else if(*x==2&&*y==2)
        rent=2500;
    else if(*x==2&&*y==3)
        rent=3000;
    return rent;
}

void displaymenu(){
    cout<<"-----\n";
    cout<<"||MENU||\n";
    cout<<"-----\n";
    cout<<"1. Burger (Rs.500) "<<endl;
    cout<<"2. pizza (Rs.1000) "<<endl;
    cout<<"3. Sandwich (Rs.200) "<<endl;
    cout<<"4. White pasta (Rs.700) "<<endl;
    cout<<"5. Nuggets 1 piece (Rs.50) "<<endl;
    cout<<"6. French fries (Rs.300) "<<endl;
    cout<<"7. Cofee (Rs.150) "<<endl;
}

void take_order( )
{
    int quantity;
    int charge;
    int order;
    int count=0;
    cout<<"\n\nWhat would u like to order? (please enter 1,2,3,4,5,6 or
7)"<<endl;
    cin>>order;
    for(int i=1;i<=7;i++){
        if(order!=i)
            count++;
        if(count==7){
            cout<<"Sorry. We don't have this option! \n";
            take_order();    //recursive function
        }
    }
}

```

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}

cin.ignore();

cout<<"How much quantity do u want? "<<endl;
cin>>quantity;

switch(order)
{
    case 1:
        charge=quantity*500;
        cout<<"Total charges (Burger) : "<<charge<<endl;
        break;
    case 2:
        charge=quantity*1000;
        cout<<"Total charges (pizza) : "<<charge<<endl;
        break;
    case 3:
        charge=quantity*200;
        cout<<"Total charges (sandwich) : "<<charge<<endl;
        break;
    case 4:
        charge=quantity*700;
        cout<<"Total charges (White pasta) : "<<charge<<endl;
        break;
    case 5:
        charge=quantity*50;
        cout<<"Total charges (Nuggets) : "<<charge<<endl;
        break;
    case 6:
        charge=quantity*300;
        cout<<"Total charges (French fries) : "<<charge<<endl;
        break;
    case 7:
        charge=quantity*150;
        cout<<"Total charges (Coffee) : "<<charge<<endl;
        break;
}
}

```