**Title: DSA LAB Code**

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**Hotel Management System**

**#include<iostream>**

**using namespace std;**

**class customer**

**{**

**public:**

**char name[30];**

**char address[100];**

**int phone[100];**

**char from\_date[20];**

**char to\_date[20];**

**int roomNumber;**

**float payment\_advance;**

**int booking\_id;**

**};**

**class hotelmgnt :public customer**

**{**

**public:**

**void checkin()**

**{**

**customer cust;**

**cout << "\nEnter Customer Name (First Name): ";**

**cin >> cust.name;**

**cout << "\nEnter Phone: ";**

**cin >> cust.phone[100];**

**cout << "\nEnter Address (only city): ";**

**cin >> cust.address;**

**cout << "\nEnter From Date: ";**

**cin >> cust.from\_date;**

**cout << "\nEnter to Date: ";**

**cin >> cust.to\_date;**

**cout << "\n Customer Checked-in Successfully..";**

**}**

**};**

**class room : public hotelmgnt**

**{**

**public:**

**char type;**

**char stype;**

**char ac;**

**int roomNumber;**

**int rent;**

**int status;**

**int rooms;**

**};**

**class room2 :public room**

**{**

**public:**

**void addroom()**

**{**

**room2 r;**

**cout << "\nType AC/Non-AC (A/N) : ";**

**cin >> r.ac;**

**cout << "\nType Comfort (S/N) : ";**

**cin >> r.type;**

**cout << "\nType Size (B/S) : ";**

**cin >> r.stype;**

**cout << "\nDaily Rent : ";**

**cin >> r.rent;**

**r.status = 0;**

**cout << "Room Added Successfully!"<<endl;**

**}**

**};**

**class room3 :public room2**

**{**

**public:**

**void displayroom()**

**{**

**room3 temproom;**

**cout << "\nRoom Number: \t" ;**

**cin >> temproom.roomNumber;**

**cout << "\nType AC/Non-AC (A/N): " ;**

**cin >> temproom.ac;**

**cout << "\nType Comfort (S/N): " ;**

**cin >> temproom.type;**

**cout << "\nType Size (B/S): " ;**

**cin >> temproom.stype;**

**cout << "\nRent: " ;**

**cin >> temproom.rent;**

**}**

**};**

**class roomnomber :public room3**

**{**

**public:**

**void room()**

**{**

**cout << "\nEnter room number: ";**

**cin >> rooms;**

**}**

**};**

**class search :public roomnomber**

**{**

**public:**

**void searchroom()**

**{**

**if (rooms == 1)**

**{**

**cout << "Room is reserved" << endl;**

**if (rooms == 2)**

**{**

**cout << "Room is not available" << endl;**

**}**

**}**

**else**

**{**

**cout << "Room not available" << endl;**

**}**

**}**

**};**

**class hotel1 :public search**

**{**

**public:**

**void choose()**

**{**

**int choice{};**

**while (choice != 5)**

**{**

**system("cls");**

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

**cout << "\n\t\t\t\t SIMPLE HOTEL MANAGEMENT ";**

**cout << "\n\t\t\t\t \* MAIN MENU \*";**

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

**cout << "\n\n\n\t\t\t1. Add Room";**

**cout << "\n\t\t\t2. Display Room ";**

**cout << "\n\t\t\t3.Check-in";**

**cout << "\n\t\t\t4.Exit";**

**cout << "\n\n\t\t\tEnter Your Choice: ";**

**cin >> choice;**

**switch (choice)**

**{**

**case 1: room2::addroom();**

**break;**

**case 2: room3::displayroom();**

**break;**

**case 3:hotelmgnt::checkin();**

**break;**

**case 4: break;**

**default:**

**{**

**cout << "\n\n\t\t\tWrong choice.....!!!";**

**cout << "\n\t\t\tPress any key to continue....!!";**

**}**

**}**

**}**

**}**

**};**

**int main()**

**{**

**hotel1 Mgnt;**

**Mgnt.choose();**

**Mgnt.checkin();**

**Mgnt.addroom();**

**Mgnt.displayroom();**

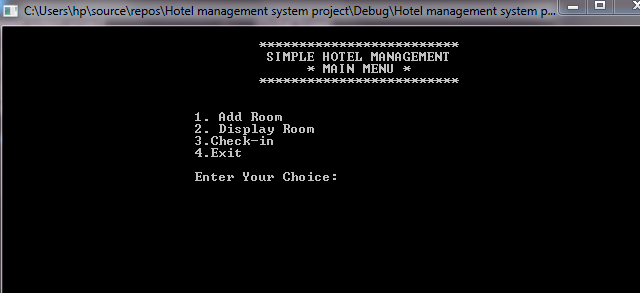
**Mgnt.room();**

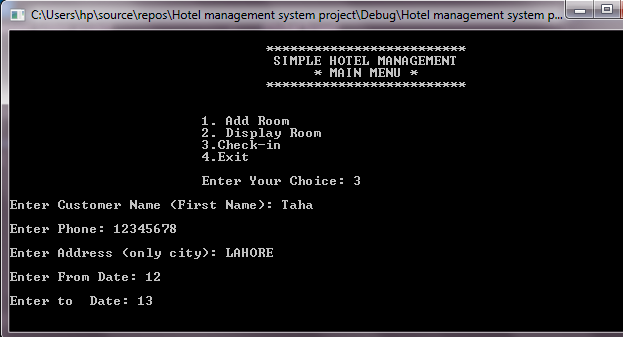
**Mgnt.searchroom();**

**return 0;**

**}**

**Screenshot:**

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