

```
#include<iostream>

#include<string.h>

using namespace std;

class Hospital
{
public:
    string H_name;
    string location;
    int available_beds;
    float rating;
    string contact;
    string doctor_name;
    int price;
    void getHospitalData();
    void printhospitaldata();
    void searchHospitalbyName(string);
    void searchbyavailablebeds(int);
    void updateinfo();
};

class Patient : public Hospital
{
public:
    string P_name;
    int P_id;
    void getPatientData();
```

```

void printpatientdata();

};

void Hospital::printhospitaldata()
{
    cout<<"Hospital's name:"<<H_name<<endl;
    cout<<"Location:"<<location<<endl;
    cout<<"Available beds:"<<available_beds<<endl;
    cout<<"Rating:"<<rating<<endl;
    cout<<"Contact:"<<contact<<endl;
    cout<<"Doctor's name :"<<doctor_name<<endl;
    cout<<"Price per bed:"<<price<<endl;

}

void Hospital::getHospitalData()
{
    cout<<"Enter the hospital name:"<<endl;
    cin>>H_name;
    cout<<"Enter the location:"<<endl;
    cin>>location;
    cout<<"Enter the rating:"<<endl;
    cin>>rating;
    cout<<"Enter contact:"<<endl;
    cin>>contact;
    cout<<"Enter doctor name:"<<endl;
    cin>>doctor_name;

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    cout<<"enter price per bed"<<endl;

    cin>>price;

}

void Patient::printpatientdata()

{

    cout<<"patient Name:"<<P_name<<endl;

    cout<<"Patient's Id:"<<P_id<<endl;

}

void Patient::getPatientData()

{

    cout<<"Enter Patient's Name:"<<endl;

    cin>>P_name;

    cout<<"Enter Patient's Id:"<<endl;

    cin>>P_id;

}


void Hospital::searchHospitalbyName(string hosp_name)

{

    if(H_name==hosp_name)

        cout<<"match found"<<endl;

}

void Hospital::searchbyavailablebeds(int avail_bed)

{

    if(available_beds==avail_bed)

        cout<<"match found"<<endl;

}

```

```

void Hospital::updateinfo()
{
    cout<<"Enter the hospital name:"<<endl;
    cin>>H_name;
    cout<<"Enter the location:"<<endl;
    cin>>location;
    cout<<"Enter the rating:"<<endl;
    cin>>rating;
    cout<<"Enter contact:"<<endl;
    cin>>contact;
    cout<<"Enter doctor name:"<<endl;
    cin>>doctor_name;
    cout<<"enter price per bed"<<endl;
    cin>>price;
}

```

```

int main()
{
    Hospital h[50];
    Patient p[50];
    int choice, i=0;
    string hosp_name;
    int avail_bed,t;
    for(i=0;i<1;i++)
    {
        h[i].getHospitalData();
    }
}

```

```

}

{
for(i=0;i<1;i++)

    p[i].getPatientData();
}

while(1)
{
    cout<<"1.print hospital's data"<<endl;

    cout<<"2.print patient's data"<<endl;

    cout<<"3.search hospital by name"<<endl;

    cout<<"4.search by available beds"<<endl;

    cout<<"5.update info"<<endl;

    cout<<"6.exit"<<endl;

    cout<<"enter choice"<<endl;

    cin>>choice;

    switch(choice)
    {

case 1:

        for(i=0;i<1;i++)

            h[i].printhospitaldata();

            i++;

            break;

case 2:

        for(i=0;i<1;i++)

            p[i].printpatientdata();

```

```
break;
```

case 3:

```
cin>>hosp_name;  
for(t=0;t<i;t++)  
{  
    h[t].searchHospitalbyName(hosp_name);  
    h[t].printhospitaldata();  
}  
break;
```

case 4:

```
cin>>avail_bed;  
for(t=0;t<i;t++)  
{  
    h[t].searchbyavailablebeds(avail_bed);  
    h[t].printhospitaldata();  
}
```

```
break;
```

case 5:

```
h[i].updateinfo();  
break;
```

case 6:

```
exit(0);  
break;
```

```
    }  
}  
return 0;  
}
```

```
Enter the hospital name:
kundar
Enter the location:
virar
Enter the rating:
3
Enter contact:
1234
Enter doctor name:
patil
enter price per bed
37
Enter Patient's Name:
devam
Enter Patient's Id:
76
1.print hospital's data
2.print patient's data
3.search hospital by name
4.search by available beds
5.update info
6.exit
enter choice
1
Hospital's name:kundar
Location:virar
Available beds:2032
Rating:3
Contact:1234
Doctor's name :patil
Price per bed:37
1.print hospital's data
2.print patient's data
3.search hospital by name
4.search by available beds
5.update info
6.exit
enter choice
2
patient Name:devam
Patient's Id:76
1.print hospital's data
2.print patient's data
3.search hospital by name
4.search by available beds
5.update info
6.exit
enter choice
3
kundar
match found
Hospital's name:kundar
Location:virar
Available beds:2032
Rating:3
Contact:1234
Doctor's name :patil
Price per bed:37
1.print hospital's data
2.print patient's data
3.search hospital by name
4.search by available beds
5.update info
6.exit
enter choice
5
Enter the hospital name:
abc
```