

Department of Electronics and Communication Engineering Object-Oriented programming with C++

HOSPITAL MANAGEMENT SYSTEM USING INHERITANCE

MINI PROJECT REPORT BY

NAME	<u>USN</u>
ASHWIN BHARADWAJ S	4NM20EC013
DEEPAK V S	4NM20EC027
KARTHIK RAJ M	4NM20EC048
SHRESHTA M	4NM20EC110

HOSPITAL MANAGEMENT SYSTEM USING INHERITANCE

```
SOURCE CODE:-
#include<iostream>
using namespace std;
class hosp
{
protected:
char hn[20],to[20],dn[20];
public:
void get()
{
cout<<"\n Hospital's Details";</pre>
cout<<"\n\n Enter the hospital's name:";</pre>
cin>>hn;
cout<<"\n Enter the town's name:";</pre>
cin>>to;
cout<<"\n Enter the Doctor's name:";</pre>
cin>>dn;
}
void put()
{
cout<<"Hospital Management System\n";</pre>
```

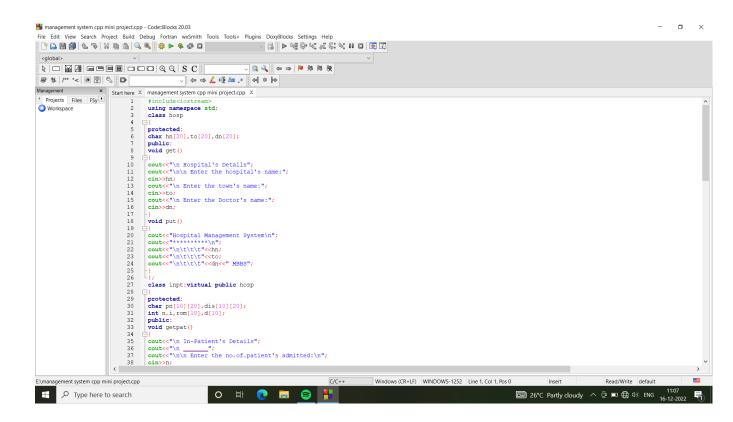
```
cout<<"*******\n";
cout << "\n\t\t" << hn;
cout << "\n\t\t" << to;
cout << "\n\t\t" << dn << " MBBS";
}
};
class inpt:virtual public hosp
{
protected:
char pn[10][20],dis[10][20];
int n,i,rom[10],d[10];
public:
void getpat()
{
cout<<"\n In-Patient's Details";
cout<<"\n _____";
cout<<"\n\n Enter the no.of.patient's admitted:\n";</pre>
cin>>n;
for(i=0;i<n;i++)
{
cout<<(1+i)<<"Patient's name:";
cin>>pn[i];
cout<<"\n Affected by:";
```

```
cin>>dis[i];
cout<<"\n Room no:";
cin>>rom[i];
cout<<"\n No.of.days stayed:";</pre>
cin>>d[i];
}
}
void putpat()
{
cout<<"\n In-patient's Details";</pre>
cout<<"\n _____";
cout<<"\n\n No.of.patient's:"<<n;</pre>
for(int i=0;i<n;i++)
{
cout<<"\n name:"<<pn[i];</pre>
cout<<"\n Affected by:"<<dis[i];</pre>
cout<<"\n No.of.days admitted:"<<d[i];</pre>
cout<<"\n The amount to be paid:Rs."<<d[i]*250;
}
}
};
class outpt:virtual public hosp
{
```

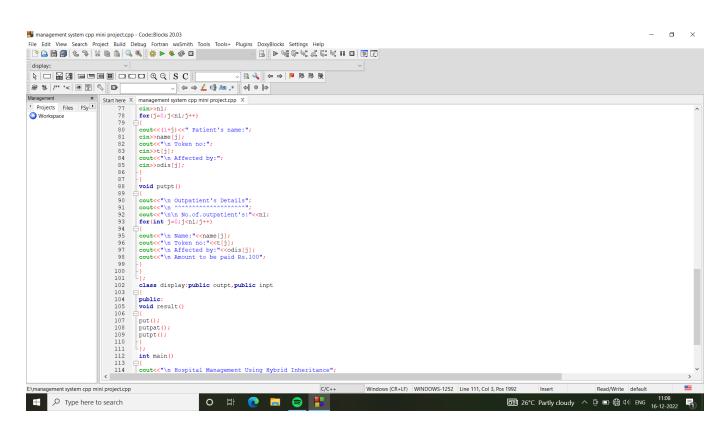
```
protected:
char name[10][20],odis[10][20];
int n1,j,t[10];
public:
void getpt()
{
cout<<"\n Outpatient's Details";</pre>
cout<<"\n ^^^^^^^^^^^^^
cout<<"\n\n Enter the no.of.outpatient's:\n";</pre>
cin>>n1;
for(j=0;j<n1;j++)
cout<<(1+j)<<" Patient's name:";</pre>
cin>>name[j];
cout<<"\n Token no:";
cin>>t[j];
cout<<"\n Affected by:";
cin>>odis[j];
}
}
void putpt()
{
cout<<"\n Outpatient's Details";</pre>
```

```
cout<<"\n ^^^^^^^^^^^^
cout<<"\n\n No.of.outpatient's:"<<n1;</pre>
for(int j=0;j<n1;j++)
{
cout<<"\n Name:"<<name[j];</pre>
cout<<"\n Token no:"<<t[j];</pre>
cout<<"\n Affected by:"<<odis[j];</pre>
cout<<"\n Amount to be paid Rs.100";
}
}
};
class display:public outpt,public inpt
{
public:
void result()
{
put();
putpat();
putpt();
}
};
```

```
int main()
{
cout<<"\n Hospital Management Using Hybrid Inheritance";
cout<<"\n *************;
display x; //Object declaration for the derived class "display"
x.get(); //Get the details of Doctors
x.getpat(); // Get In-Patient Details
x.getpt(); // Get Out-Patient Details
x.result(); //Display All details about the Hospital
return 0;
}</pre>
```



```
| Red (we) can hoped basis bebug fortan widnish foot Toots Rugars Dosplicks Settings Help
| Part | March | Part | March | Part | Part | Part |
| Part | Part | Part | Part | Part | Part |
| Part | Part | Part | Part | Part | Part |
| Part | Part | Part | Part | Part | Part |
| Part | Part | Part | Part | Part |
| Part | Part | Part | Part | Part |
| Part | Part | Part | Part | Part |
| Part | Part | Part | Part | Part |
| Part | Part | Part | Part | Part |
| Part | Part | Part | Part |
| Part | Part | Part | Part |
| Part | Part | Part | Part |
| Part | Part | Part | Part |
| Part | Part | Part | Part |
| Part | Part | Part | Part |
| Part | Part | Part | Part |
| Part | Part | Part | Part |
| Part | Part | Part | Part |
| Part | Part | Part | Part |
| Part | Part | Part | Part |
| Part | Part | Part | Part |
| Part | Part | Part | Part |
| Part | Part | Part | Part |
| Part | Part | Part | Part |
| Part | Part | Part | Part |
| Part | Part | Part | Part |
| Part | Part | Part | Part |
| Part | Part | Part | Part |
| Part | Part | Part | Part |
| Part | Part | Part | Part |
| Part | Part
```



OUTPUT RESULT

