Padre Conceicao College of Engineering

PROGRAM : HOSPITAL MANAGEMENT SYSTEM

Input:

```cpp
#include<conio.h>
#include<string>
#include<iomanip>
#include<iostream>

using namespace std;
static int abc = 1, i = 1, j = 1, k = 1, l = 1;

class vIRTUAL
{
public:virtual void get();
        virtual void put();
        string name, time;

        int age;
};
void vIRTUAL::get()
{
        system("cls");
        cin.ignore();
        cout << "\nENTER THE PATIENTS NAME : ";
        getline(cin, name);
        cout << "\nENTER APPOINTMENT TIME : ";
        getline(cin, time);
        cout << "\nENTER AGE : ";
        cin >> age;
        cout << "\nAPOINTMENT NUMBER:";

}

void vIRTUAL::put()
{

        cout << "\nNAME  : " << name;
        cout << "\nAGE   : " << age;
        cout << "\nTIME  : " << time << endl << endl;

}


class salary:public vIRTUAL
{

        string name, wpos;
        int wage, wsalary;
public:
        void operator ++();   //operator overloading
        void sget()
        {
                system("cls");
                cin.ignore();
                cout << "\nENTER NAME : ";
                getline(cin, name);
                cout << "\nENTER AGE :";
                cin >> wage;
                cout << "\nENTER SALARY : ";
                cin >> wsalary;
```

```
                cin.ignore();
                cout << "\nWORKING POSITION : ";
                getline(cin, wpos);
                _getch();

        }
  void sput()
        {
                cout << "NAME"<<setw(15)<<": " << name << "\nAGE"<<setw(16)<<": " << wage <<
"\nWORKING POSITION : " << wpos << "\nSALARY"<<setw(13)<<": " << wsalary << endl << endl;

        };

};

void salary::operator++()
{
        int o;
        cout << "ENTER INCREMENT AMOUNT  :";
        cin >> o;
        wsalary=wsalary+o;
        cout << "SALARY UPDATED SUCCESSFULLY";
        _getch();

}
salary S[10];



class info :public vIRTUAL
{
public:

        void geti()
        {
                get();
        }
        void puti()
        {
                put();
        }
};

class RAJ :public info
{
public:
        void getr()
        {
                get();
        }
        void putr()
        {
                put();
        }
};
RAJ a[3];


class SHREYAS :public info
{
public:
```

```cpp
        void gets()
        {
                get();
        }
        void puts()
        {
                put();
        }
};
SHREYAS b[3];



class SAISH :public info
{
public:void getsa()
{
        get();

}
        void putsa()
        {
                put();
        }

};
SAISH c[3];



void menu()
{

        system("cls");
        cout << "\n";
        cout << "\n";
        cout << "\t\t |**************************************|\n";
        cout << "\t\t |           MAIN MENU               |\n";
        cout << "\t\t |    HOSPITAL MANAGEMENT SYSTEM       |\n";
        cout << "\t\t |**************************************|\n";


        cout << "\n----------------------------------------------------------------------------------\n";
        cout << "\t\t\tPLEASE SELECT ANY OPTION            \n";
        cout << "\n\t\tPRESS 1 FOR AVAILABLE DOCTOR INFORMATION \n\n";
        cout << "\n\t\tPRESS 2 FOR DOCTOR APPOINTMENT \n\n";
        cout << "\n\t\tPRESS 3 FOR SAVING STAFF INFORMATION \n\n";
        cout << "\n\t\tPRESS 4 CHECK PATIENT APPOINTMENT MENU \n\n";
        cout << "\n\t\tPRESS 5 CHECKING STAFF INFORMATION MENU \n\n";
        cout << "\n\t\tPRESS 6 TO INCREASE SALARY OF STAFF\n\n";
        cout << "\n\t\tPRESS 7 FOR LOGOUT \n\n";

        cout <<
"\n===========================================================================
======\n";
        cout << "\n\n\t\tPLEASE ENTER YOUR CHOICE:";
}

void drinfo()
{
        system("cls");
```

```cpp
        cout <<
"\n=====================================================================
============\n";
        cout << "\n\n\t\t(Three Doctor Available) \n\n \t\t[Information And Timing Are Given Below]\n";
        cout << "\n-----------------------------------------------------------------------------------------\n";
        cout << "\t\t Dr.Raj(skin specialist)\n\n";
        cout << "\t\t\t [Timimg] \t\t\t\n";
        cout << "\tMonday To Friday\t\t9AM to 5PM\n";
        cout << "\tSaturday        \t\t9AM to 1PM\n";
        cout << "\tSunday          \t\t OFF\n";
        cout << "\n-----------------------------------------------------------------------------------------\n";
        cout << "\t\t Dr.Shreyas(child specialist)\n\n";
        cout << "\t\t\t [Timimg] \t\t\t\n";
        cout << "\tMonday To Friday\t\t2PM to 10PM\n";
        cout << "\tSaturday        \t\t8AM to 1PM\n";
        cout << "\tSunday          \t\t12AM to 9PM\n";
        cout << "\n-----------------------------------------------------------------------------------------\n";
        cout << "\t\t Dr.Saish(eye specialist)\n\n";
        cout << "\t\t\t [Timimg] \t\t\t\n";
        cout << "\tMonday To Friday\t\t8AM to 5PM\n";
        cout << "\tSaturday        \t\t10AM to 1PM\n";
        cout << "\tSunday          \t\t OFF \n";
        cout << "\n-----------------------------------------------------------------------------------------\n";
        cout << "\nPress any key to Continue";
        _getch();
        system("cls");

}

void appt()
{
        system("cls");

        int choice;
        cout << "\n\n\t\tPress 1 for Dr.Raj \n\n\t\tPress 2 for Dr.Shreyas  \n\n\t\tPress 3 for Dr.Saish\n";
        cin >> choice;

        if (choice == 1)
        {
                if (i > 2)
                {
                        cout << "APPOINTMENTS FULL FOR TODAY";
                        _getch();
                }
                else
                {
                        a[i].getr();
                        cout << i;
                        _getch();
                        i++;

                }
        }

        if (choice == 2)
        {
                if (j > 2)
                {
                        cout << "APPOINTMENTS FULL FOR TODAY";
                        _getch();
                }
                else
                {
```

```
                                        b[j].gets();
                                        cout << j;
                                        _getch();
                                        j++;
                                }
                        }

                if (choice == 3)
                {
                        if (k > 2)
                        {
                                cout << "APPOINTMENTS FULL FOR TODAY";
                                _getch();
                        }
                        else
                        {
                                c[k].getsa();
                                cout << k;
                                _getch();
                                k++;
                        }
                }
        }
        void aptshow()
        {
                system("cls");
                int choice;
                cout << "\n\n\t\tPress 1 for Dr.Raj \n\n\t\tPress 2 for Dr.Shreyas  \n\n\t\tPress 3 for Dr.Saish\n";
                cin >> choice;

                if (choice == 1)
                {
                        if (i == 1)
                        {
                                cout << " NO APPOINTMENTS  FOR TODAY";
                                _getch();
                        }
                        else
                        {
                                system("cls");
                                for (int x = 1; x < i; x++)
                                {
                                        cout << "APPOINTMENT NO : " << x;
                                        a[x].putr();
                                }
                                _getch();



                        }
                }

                if (choice == 2)
                {
                        if (j == 1)
                        {
                                cout << " NO APPOINTMENTS FOR TODAY";
                                _getch();
                        }
                        else
                        {
                                system("cls");
                                for (int x = 1; x < j; x++)
                                {
```

```
                                    cout << "APPOINTMENT NO : " << x;
                                    b[x].puts();
                            }
                            _getch();
                    }
            }

            if (choice == 3)
            {
                    if (k == 1)
                    {
                            cout << "NO APPOINTMENTS  FOR TODAY";
                            _getch();
                    }
                    else
                    {
                            system("cls");
                            for (int x = 1; x < k; x++)
                            {
                                    cout << "APPOINTMENT NO : " << x;
                                    c[x].putsa();
                            }
                            _getch();
                    }

            }

    }


    int  password()
    {
            int pass = 12345, a;
            cout << "\n\nENTER PASSWORD  : ";
            cin >> a;
            if (pass == a)
                    return 1;
            else
            {
                    cout << "WRONG PASSWORD";
                    _getch();
                    return 0;
            }

    }
    class admin:public RAJ,public SHREYAS , public SAISH
    {
    public:string adminname;
            admin()  //CONSTRUCTOR//
            {
                    cin.ignore();
                    cout << "ENTER USER NAME : ";
                    getline(cin, adminname);
            }
            ~admin()  //DESTRUCTOR//
            {
                    system("cls");
                    cout << "SESSION CLOSED FOR USER : " << adminname;
                    _getch();
            }
    };

    int main()
```

```cpp
{
        int p;



        char ch;
        if (password())
        {
                admin ABC;

                do {
                        menu();
                        cin >> ch;
                        if (ch == '1')
                                drinfo();
                        else if (ch == '2')
                                appt();
                        else if (ch == '3')
                        {
                                S[l].sget(); l++;
                        }

                        else if (ch == '4')
                                aptshow();
                        else if (ch == '5')
                        {
                                system("cls");
                                if (l == 1)
                                {
                                        cout << "NO STAFF RECORDS AVAILABLE";
                                _getch();
                                }
                                        else
                                        {
                                                for (int x = 1; x < l; x++)
                                                {
                                                        cout << "EMPLOYEE NUM " << x << endl;
                                                        S[x].sput();
                                                }
                                                _getch();
                                        }
                        }
                        else if (ch == '6')
                        {

                                system("cls");

                                if (l == 1)
                                {
                                        cout << "NO STAFF RECORDS AVAILABLE";
                                _getch();
                                }
                                        else
                                        {
                                                for (int x = 1; x < l; x++)
                                                {
                                                        cout << "EMPLOYEE NUM " << x << endl;
                                                        S[x].sput();
                                                }

                                                cout << "\n\nENTER EMPLOYEE NUM :";
                                                cin >> p;
                                                if (p > l - 1 || p <1)
```

```
                    {
                            cout << "INVALID EMPLOYEE NUM";
                            _getch();
                    }
                    else

                            ++S[p];
            }
        }


        else if (ch == '7')
        {
                abc = 0;
        }
    } while (abc == 1);
    }



}
```

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Output:

```
ENTER PASSWORD  : 12345
ENTER USER NAME : Manohar _
```

```
         |*******************************************|
         |                MAIN MENU                  |
         |         HOSPITAL MANAGEMENT SYSTEM         |
         |*******************************************|

--------------------------------------------------------------------------------
                    PLEASE SELECT ANY OPTION

         PRESS 1 FOR AVAILABLE DOCTOR INFORMATION


         PRESS 2 FOR DOCTOR APPOINTMENT


         PRESS 3 FOR SAVING STAFF INFORMATION


         PRESS 4 CHECK PATIENT APPOINTMENT MENU


         PRESS 5 CHECKING STAFF INFORMATION MENU


         PRESS 6 TO INCREASE SALARY OF STAFF


         PRESS 7 FOR LOGOUT


=================================================================================

         PLEASE ENTER YOUR CHOICE:
```

For choice 1

```
===================================================================================================

                (Three Doctor Available)

                [Information And Timing Are Given Below]
-------------------------------------------------------------------------------
                Dr.Raj(skin specialist)

                        [Timimg]
        Monday To Friday                 9AM to 5PM
        Saturday                         9AM to 1PM
        Sunday                            OFF

-------------------------------------------------------------------------------
                Dr.Shreyas(child specialist)

                        [Timimg]
        Monday To Friday                 2PM to 10PM
        Saturday                         8AM to 1PM
        Sunday                           12AM to 9PM

-------------------------------------------------------------------------------
                Dr.Saish(eye specialist)

                        [Timimg]
        Monday To Friday                 8AM to 5PM
        Saturday                         10AM to 1PM
        Sunday                            OFF


-------------------------------------------------------------------------------
Press any key to Continue_
```

For choice 2

```
              Press 1 for Dr.Raj

              Press 2 for Dr.Shreyas

              Press 3 for Dr.Saish
```

DR.RAJ appointments (input)

```
ENTER THE PATIENTS NAME : Sachin desai

ENTER APPOINTMENT TIME : 10:00 am

ENTER AGE : 25

APOINTMENT NUMBER:1


ENTER THE PATIENTS NAME : Swapnil Joshi

ENTER APPOINTMENT TIME : 11:00 am

ENTER AGE : 40

APOINTMENT NUMBER:2
```

For 3rd appointment

```
              Press 1 for Dr.Raj

              Press 2 for Dr.Shreyas

              Press 3 for Dr.Saish
1
APPOINTMENTS FULL FOR TODAY
```

DR.SHREYAS appointments (input)

```
ENTER THE PATIENTS NAME : shaswat M

ENTER APPOINTMENT TIME : 10:00 am

ENTER AGE : 10

APOINTMENT NUMBER:1
```

```
ENTER THE PATIENTS NAME : Nikhil Phadte

ENTER APPOINTMENT TIME : 12:00 pm

ENTER AGE : 15

APOINTMENT NUMBER:2
```

For 3rd appointment

```
                Press 1 for Dr.Raj

                Press 2 for Dr.Shreyas

                Press 3 for Dr.Saish
2
APPOINTMENTS FULL FOR TODAY
```

DR.SAISH appointments (input)
//NO ENTRIES MADE//

For choice 3

//first entry//

```
ENTER NAME : Prassana Bhat

ENTER AGE :35

ENTER SALARY : 20000

WORKING POSITION : ward boy
```

//second entry//

```
ENTER NAME : Rujuta Naik

ENTER AGE :40

ENTER SALARY : 25000

WORKING POSITION : Nurse
```

For choice 4

```
Press 1 for Dr.Raj

Press 2 for Dr.Shreyas

Press 3 for Dr.Saish
```

Dr.Raj appointments (output)

```
APPOINTMENT NO : 1
NAME   : Sachin desai
AGE    : 25
TIME   : 10:00 am

APPOINTMENT NO : 2
NAME   : Swapnil Joshi
AGE    : 40
TIME   : 11:00 am
```

Dr.Shreyas appointments(output)

```
APPOINTMENT NO : 1
NAME   : shaswat M
AGE    : 10
TIME   : 10:00 am

APPOINTMENT NO : 2
NAME   : Nikhil Phadte
AGE    : 15
TIME   : 12:00 pm
```

Dr.Saish appointments (output)

```
NO APPOINTMENTS  FOR TODAY
```

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For choice 5

```
EMPLOYEE NUM 1
NAME             : Prassana Bhat
AGE              : 35
WORKING POSITION : ward boy
SALARY           : 20000

EMPLOYEE NUM 2
NAME             : Rujuta Naik
AGE              : 40
WORKING POSITION : Nurse
SALARY           : 25000
```

For choice 6

```
EMPLOYEE NUM 1
NAME              : Prassana Bhat
AGE               : 35
WORKING POSITION : ward boy
SALARY            : 20000

EMPLOYEE NUM 2
NAME              : Rujuta Naik
AGE               : 40
WORKING POSITION : Nurse
SALARY            : 25000




ENTER EMPLOYEE NUM :1
ENTER INCREMENT AMOUNT   :2000
SALARY UPDATED SUCCESSFULLY
```

//UPDATE IN RECORDS SHOWN BELOW//

```
EMPLOYEE NUM 1
NAME              : Prassana Bhat
AGE               : 35
WORKING POSITION : ward boy
SALARY            : 22000

EMPLOYEE NUM 2
NAME              : Rujuta Naik
AGE               : 40
WORKING POSITION : Nurse
SALARY            : 25000
```

For choice 7

```
C:\Users\Lenovo AIO\OneDrive\Desktop\HOPITAL MANAGEMENT SYSTEM(2022)\x64\Debug\HOPITAL MANAGEMENT SYSTEM(2022).exe
SESSION CLOSED FOR USER : Manohar
```