

# Terminal Examination



## UNIVERSITY OF GUJRAT

<b><u>Course title:</u></b>	Object Oriented Programming
<b><u>Topic:</u></b>	Patient to referred to another department
<b><u>Roll-No:</u></b>	19011519-150
<b><u>Course code:</u></b>	CS-103
<b><u>Class:</u></b>	BS-CS 2 <sup>nd</sup> semester
<b><u>Section:</u></b>	A
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Department of computer science

(Hafiz Hayat Campus)

```
#include<iostream>

#include<fstream>

using namespace std;

class abstreact{

    int age;

    string name;

    public:

        int id;

        void getdata(int s){

            cout<<"Enter name";cin>>name;

            cout<<"Enter age;";cin>>age;

            id=s;

            cout<<"Your id is "<<id;

        }

        void showdata(){

            cout<<"Name "<<name<<endl;

            cout<<"Age "<<age<<endl;

            cout<<"Your id is "<<id<<endl;

        }

};

class patient:public abstreact {
```

```
string dp;

public:

    string dc;

    void showdata(){

        abstreact::showdata();

        cout<<"Department "<<dp<<endl;

        cout<<"Doctor refer "<<dc<<endl;

    }

    void refer(){

        cin>>dp;

    }

    int idc(){

        return id;

    }

};

class doctor:public abstreact{

    string qua;

    public:

        void getdata(int s){

            abstreact::getdata(s);

            cout<<"Enter qualification ";cin>>qua;

        }

}
```

```
void showdata(){
    abstreact::showdata();
    cout<<"Qualification "<<qua;
}
};

patient p;
doctor d;

fstream file1,file2;

int a=1;
int b=1;

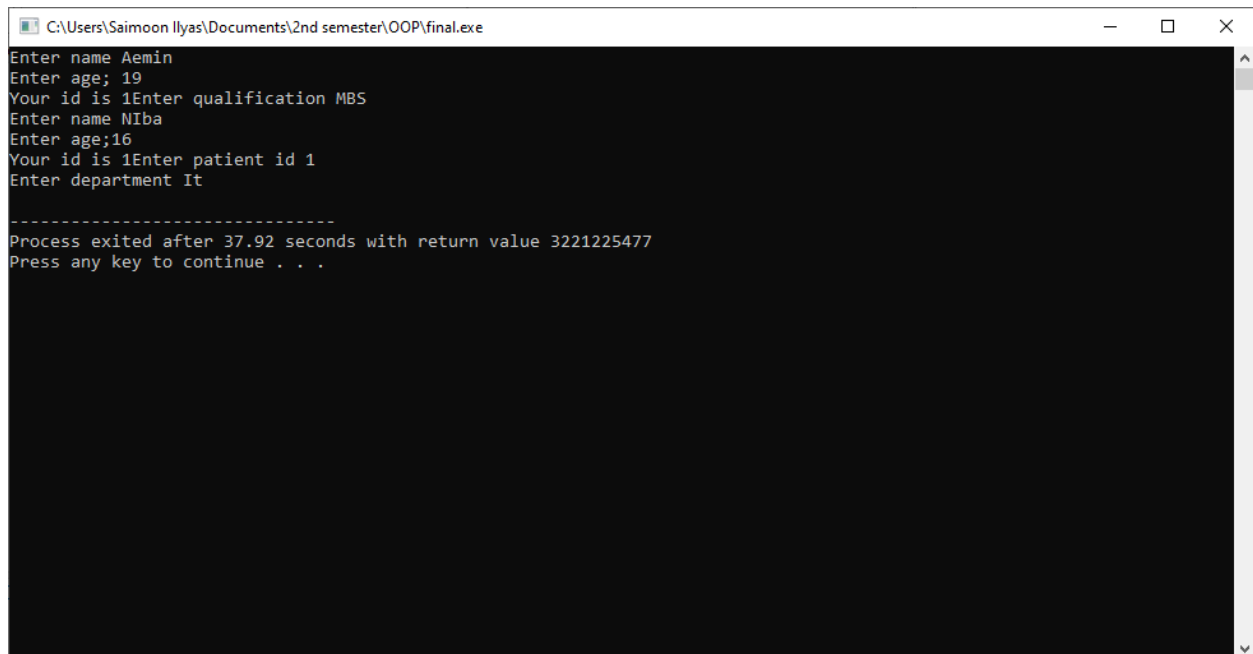
void getpt(){
    file1.open("patient.txt",ios::binary|ios::out|ios::in|ios::app);
    p.getdata(a);
    a++;
    file1.write(reinterpret_cast<char *>(&p),sizeof(p));
    file1.close();
}

void getdoctor(){
    file2.open("doctor.txt",ios::binary|ios::app|ios::out|ios::in);
    d.getdata(b);
    b++;
    file2.write(reinterpret_cast<char*>(&d),sizeof(d));
```

```
}  
  
void dp(){  
    int c,f;  
  
    cout<<"Enter patient id ";cin>>c;  
  
    file1.open("patient.txt",ios::binary|ios::in|ios::out|ios::app);  
  
    while(file1.read(reinterpret_cast<char *>(&p),sizeof(p))){  
        if(c==p.idc()){  
            cout<<"Enter department ";  
            p.refer();  
            cout<<"Enter doctor name ";  
            cin>>p.dc;  
            f=(-1)*sizeof(p);  
            file1.seekp(f,ios::cur);  
            file1.write(reinterpret_cast<char *>(&p),sizeof(p));  
            file1.close();  
        }  
    }  
}  
  
void showall(){  
    file1.open("patient.txt",ios::binary|ios::in|ios::app);  
  
    while(file1.read(reinterpret_cast<char *>(&p),sizeof(p))){  
        p.showdata();  
    }  
}
```

```
        }  
    }  
  
int main(){  
    getdoctor();  
    getpt();  
    dp();  
    showall();  
}
```

## Output:



```
C:\Users\Saimoon Ilyas\Documents\2nd semester\OOP\final.exe  
Enter name Amin  
Enter age; 19  
Your id is 1Enter qualification MBS  
Enter name NIba  
Enter age;16  
Your id is 1Enter patient id 1  
Enter department It  
  
-----  
Process exited after 37.92 seconds with return value 3221225477  
Press any key to continue . . .
```