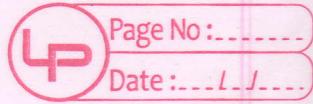


Assignment : 2

2005025-NITD RAJ



3// Write a function in C++ to add new object at the bottom of a binary file "stud.txt" assuming the binary file is containing the objects of the following class:- stud
class stud

```
# include <iostream.h>
# include <fstream.h>
# include <stro.h>
using namespace std;
```

```
class STUD
{
    int Rno;
    char name[20];
```

```
public:
    void Enter()
```

```
(cout << "Enter Roll no & name \n";
```

```
cin >> Rno;
```

```
getchar();
```

```
gets(name);
```

```
)
```

```
void display()
```

```
(cout << "\n Roll no-->" << Rno << "\n name -> " Name << "\n";
```

```
)
```

```
} s.
```

void copyabc()

ifstream iff ("stud.txt", ios:: binary);
 ofstream of ("newstud.txt", ios:: binary);

while (yy >= s && yy <= z) {

of > write ((char*) & s, sizeof(s));

cout << "Enter the new objn at the end of file \n";

s. Enter();

of > write ((char*) & s, sizeof(s));

if > close();

of > close();

remove ("stud.txt");

rename ("newstud.txt", "stud.txt");

int main()

{ int n = 1, c = 0;

char a[10];

ofstream f ("stud.txt", ios:: out | ios:: binary);

while (n)

{ n = 1;

for (int i = 0; i < n; i++)

{ s. Enter();

f > write ((char*) & s, sizeof(s));

`cout << "Press 1 to enter more or 0 to exit \n";`

`cin >> n;`

4.

`cout << "Writing in binary file finished \n";`

`cin >> n;`

↳ `f.close();`

`copy abc();`

`cout << "Data in stud.dat after adding \n";`

`ifstream fi ("stud.txt", ios::in | ios::binary);`

`while (fi.read((char*) &s, sizeof(s)))`

↳

`s.display();`

↳

`return 0;`

↳

2005025-HLT-U RAJ

Given a binary file Apply.dat contains records of the following class applicant type.

Write a function in C++ that would read contents of file Apply.dat & display the details of those students whose A-score is above 70

```
# include <iostream>
# include <iostream>
# include <stdio.h>
using namespace std;
```

```
class Applicant
```

```
{ char sno[10];
char name[30];
int A-score;
```

```
public:
```

```
void enroll()
{ cout << " Enter roll name & score of applicant ";
cin >> sno >> name >> A-score; }
```

```
void status()
```

```
(cout << sno << name << A-score << endl;
```

```
}
```

```
int getscore()
```

```
{ return A-score; }
```

```
}
```

```
} s;
```

2005025-HITU RAI

```
int main()
{
    int n=1, c=0;
    char a[10];
    ofstream f("appli.txt", ios::out | ios::binary);
}
```

while (n)

{

s. endlle()

f. write(((char*)s), sizeof(s));

(cout << "Press 1 to enter more or 0 to exit \n";

cin >> n;

}

cout << "Writing in binary file finished \n";

f. close();

cout << "Applicant having size greater than 70 size \n";

ifstream fi("Appli.txt", ios::in | ios::binary);

while (fi.read(((char*)s), sizeof(s)))

{

if (s. returnsize() >= 70)

{

s. status();

c++;

}

if (c = 0)

cout << "No applicant found \n";

else

cout << "Req. applicant displayed";

return 0;

Following is the structure of each record in a
data file name "Product.dat".

W A F need to update the file with a new value of stock

The values of Stock & Pcode, whose stock has to be
updated are, read during the execution of program.

```
# include < iostream >
```

```
# include < string.h >
```

```
# include <fstream >
```

```
# include < stdio.h >
```

```
using namespace std;
```

```
struct PROD
```

```
{ char PCODE[10];
```

```
char DFSC[10];
```

```
char STOCK;
```

```
void change_stock( char pcode[], int n )
```

```
int c = 0, s0;
```

```
if stream iff ("prod.txt", ios:: binary);
```

```
of stream of ("newprod.txt", ios:: binary);
```

```
while ( yy.read( (char*) +s, sizeof(s) ) )
```

```
if ( strcmp( s.PCODE, pcode ) == 0 && s.STOCK == n )
```

```
cout << " Enter the value of new stock : ";
```

```
cin >> s.STOCK;
```

```
of.write( (char*) +s, sizeof(s));
```

else

{

of.write((char*)fs, sizeof(s));

}

if (c == 0)

{

cout << "No prod found \n";

else

{

cout << "prod updated successfully \n";

}

if (close());

of.close();

remove ("prod.txt");

rename ("newprod.txt", "prod.txt");

}

int main()

{

int stock, n = 1;

char pcode[10];

ofstream f("prod.txt", ios::out | ios::binary);

while (n)

{

// for (int i=0; i<n; i++)

cout << "enter product code description & stock

of product";

cin >> s.PCODE >> s.DESC >> s.stock;

f. write((char*) &s, sizeof(s));

cout << " press 1 to enter next prod & 0 to exit \n";

cin >> n;

}

f. close();

(out << " Writing in binary file finished \n");

(out << " Enter the stock & pcode u want to change \n");

cin >> stock >> pcode;

change_stock(pcode, stock);

if stream fi (" Prod.txt", ws::in | ws::binary);

while (fi.read((char*) &s, sizeof(s)))

Y

cout << " Prod code -->" << s.PCODE;

cout << "\n Desc -->" << s.Desc;

cout << "\n Stock -->" << s.stock;

cout << "\n ----- \n";

Y

fi.close();

return 0;

)

2005025 HITU RAS

8/

Given a binary file TELE.dat , containing records of the following class directory.

WAP to copy abc() in C++ that would copy only those record having area code as "123" from "tele.dat" to "tele back.dat".

```
# include <iostream>
# include <string>
# include <fstream>
```

using namespace std;

Class directory

```
char name[20];
char address[30];
char areaCode[5];
char phno[15];
```

public :

void register()

cout << " enter name address areaCode phone no in ";

cin >> name >> address >> areaCode >> phno;

}

void show()

cout << Name << Address << areaCode << phno ;

cout << "-----";

}

2005025-NITURN

int check_code (char AC [])

{

return (stamp (ascmode, AC));

}

} s;

void copyabc (char a [])

{

ifstream ift ("tele.txt", ios::binary);

ofstream of ("teleblk.txt", ios::binary);

while (if. read ((char *) + s, sizeof(s)))

{

if (s.checkcode(a) == 0)

{

of. write ((char *) + s, sizeof(s));

}

if. close ();

of. close ();

{

int main ()

{

int n;

cout << "How many str. Enter in the otherwise";

ofstream f ("tele.txt", ios::out | ios::binary);

while (n)

{

s. register ()

f. write ((char *) + s, sizeof(s));

cout << " Press I to continue entering & D to exit \n";
 cin >> n;

}

```
f.close();  

char a[10];  

strcpy(a, "123");  

copy abc(a);
```

cout << " Writing in binary file finished \n";
 cout << " DATA in tele.txt is \n";

```
ifstream fi("tele.txt", ios::in | ios::binary);  

while (fi.read((char*)s, sizeof(s));  

    s.show();
```

cout << " \n - - - - - - - - - - - - - - \n";

cout << " DATA in teleback.txt is \n";

ifstream fai("teleback.txt", ios::in | ios::binary);

```
while (fai.read((char*)s, sizeof(s)))  

    s.show();
```

return 0;

}



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ASSIGNMENT -2

- Name :HITU RAJ
- Roll no. :2005025
- Branch :CSE

A handwritten signature in black ink that reads "Hitu Raj". The signature is written in a cursive style with a horizontal line through the end of the word "Raj".

/* Q1.

Assuming the class DRINKS_ defined below, write functions in C++ to perform the Following:

I)Write the objects of DRINKS_0 to a binary file.

(i) Read the objects of DRINKS5 from binary file and display them onscreen when DNAME has value "INDY COLA".

```
class DRINKS_
{int DCODE;
 char DNAME[13]; //Name of the drink
 int DSIZE; //Size in liters
 float DPRICE;
public:void getdrinks( )
{cin>>DCODE>>DNAME>>DSIZE>>DPRICE;}
void showdrinks( )

{cout<<DCODE<<DNAME<<DSIZE<<DPRICE<<endl;}char *getname( ){return DNAME; } }
*/
#include <iostream>
#include <fstream>
```

```

#include<string.h>
#include<cstdio>
using namespace std;
class DRINKS_025
{
    int DCODE;
    char DNAME[13]; // Name of the drink
    int DSIZE;      // Size in liters
    float DPRICE;

public:
    void getdrinks()
    {
        cout << "enter dcode dname dsize and price\n";
        cin >> DCODE >> DNAME >> DSIZE >> DPRICE;
    }
    void showdrinks()

    {
        cout <<"\nDCODE--->"<< DCODE<<"\nDNAME--->" << DNAME<<"\nDSIZE--->" << DSIZE
<<"\nPRICE--->" << DPRICE << endl;
    }
    char * getname()
    {
        return DNAME;
    }
}s;

int main()
{
    int n = 1,c=0;
    char a[10];
    ofstream f("drinks.txt", ios::out | ios::binary);
    while (n)
    {

        for (int i = 0; i < n; i++)
        {
            s.getdrinks();
            f.write((char *)&s, sizeof(s));
        }
        cout << "Press 1 to enter more or 0 to exit\n";
        cin >> n;
    }
    cout << "writing in binary file finished\n";
    f.close();
    cout<<"which drink details u want to show\n ";
    cin>>a;
    //strcpy(a, "INDYCOLA");
}

```

```

    ifstream fi("drinks.txt", ios::in | ios::binary);
    while ( fi.read((char *)&s, sizeof(s)))
    {
        if(strcmp(a,s.getname())==0)
        {
            s.showdrinks();
            c++;
        }

    }

    if(c==0)
    {

        cout<<"no drinks found\n";
    }
    else
    {

        cout<<"drinks displayed..... prog over\n";
    }

}

return 0;
}

```

OUTPUT-1

The screenshot shows the Visual Studio Code interface with the terminal tab active. The terminal window displays the following output:

```

File Edit Selection View Go Run Terminal Help q1_drinks.cpp - OOPASSIG2 - Visual Studio Code
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL Code +
Copyright (C) Microsoft Corporation. All rights reserved.
Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows
PS D:\my codes\OOPS\OOPASSIG2> cd "d:\my codes\OOPS\OOPASSIG2\" ; if ($?) { g++ q1_drinks.cpp -o q1_drinks } ; if ($?) { .\q1_drinks }
enter dcode dname dsiz and price
123
COOCOLA
5
20
Press 1 to enter more or 0 to exit
1
enter dcode dname dsiz and price
321
MAAZA
2
10
Press 1 to enter more or 0 to exit
1
enter dcode dname dsiz and price
21
PEPSI
3
15
Press 1 to enter more or 0 to exit
0
writing in binary file finished
which drink details u want to show
PEPSI

DCODE--->21
DNAME--->PEPSI
DSIZE--->3
PRICE--->15
drinks displayed..... prog over
PS D:\my codes\OOPS\OOPASSIG2>

```

The terminal also shows the status bar at the bottom with "Ln 18, Col 19" and other file information.

```

/*
Q2.Consider the following class declaration:
class STUDENT{
int addno;
char name[90];
float totalmarks;
public :void getinfo() {cin>>addno>>name>>totalmarks ;}
void showinfo () { cout<< addno<<name<<totalmarks;}
float rettotmarks () { return totalmarks;}
};

Give function definition to do the following :
(i) write the objects of STUDENT to a binary file.
(ii) Read the objects of STUDENT from a binary file and display all the objects on the
screen
    where total marks is between 456 and 498 .
*/
#include <iostream>
#include <fstream>
#include <string.h>

using namespace std;
class STUDENT_025
{
    int addno;
    char name[90];
    float totalmarks;

public:
    void getinfo()
    {
        cout << "enter addressno. name and total marks\n";
        cin >> addno >> name >> totalmarks;
    }
    void showinfo()
    {
        cout << "\naddress--->" << addno << "\nName--->" << name << "\ntotalmarks--->" << totalmarks << "\n\n\n";
    }
    float rettotmarks()
    {
        return totalmarks;
    }
}s;

int main()
{
    int n = 1, c = 0;
    char a[10];
    ofstream f("studmarks.txt", ios::out | ios::binary);
    while (n)
    {
        n = 1;
}

```

```

for (int i = 0; i < n; i++)
{
    s.getinfo();
    f.write((char *)&s, sizeof(s));
}
cout << "Press 1 to enter more or 0 to exit\n";
cin >> n;
}
cout << "writing in binary file finished\n";
f.close();

cout << "students whose marks are b/w 456 and 498 are\n ";

ifstream fi("studmarks.txt", ios::in | ios::binary);
while (fi.read((char *)&s, sizeof(s)))
{
    if (s.rettotmarks() >= 456.00 && s.rettotmarks() <= 498)
    {
        s.showinfo();
        c++;
    }
}

if (c == 0)
{
    cout << "no STUDENT_025 found\n";
}
else
{
    cout << "req students displayed..... prog over\n";
}

return 0;
}

```

OUTPUT-2

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

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```
PS D:\my codes\OOPS\OOPASSIG2> cd "d:\my codes\OOPS\OOPASSIG2\" ; if ($?) { g++ q2_marks.cpp -o q2_marks } ; if ($?) { .\q2_marks }
enter addressno. name and total marks
1322
HITU
498
Press 1 to enter more or 0 to exit
1
enter addressno. name and total marks
311
RAHUL
470
Press 1 to enter more or 0 to exit
1
enter addressno. name and total marks
21331
ISHA
400
Press 1 to enter more or 0 to exit
0
writing in binary file finished
students whose marks are b/w 456 and 498 are

address--->1322
Name--->HITU
totalmarks--->498

address--->311
Name--->RAHUL
totalmarks--->470

req students displayed..... prog over
```

Ln 15, Col 3 Spaces:4 UTF-8 CRLF C++ Win32 ⚡ 📡

```
/*
Q3. Write a function in C++ to add new objects at the bottom of a binary file "STUD.DAT",
assuming the binary file is containing the objects of the following class.
class STUD {
int Rno;
char Name[20];
public: void Enter()
{
cin>>Rno;
gets(Name);
}
void Display()
{
cout<<Rno<<Name<<endl;
}
};

#include <iostream>
#include <fstream>
#include <stdio.h>
using namespace std;

class STUD
{
    int Rno;
    char Name[20];

public:
    void Enter()
    {
```

```

        cout << "enter roll no and name\n";
        cin >> Rno;
        getchar();
        gets(Name);
    }
    void Display()
    {
        cout << "\nRollno--->" << Rno << "\n name--->" << Name << endl;
    }
}s;
void copyabc()
{
    ifstream iff("stud.txt", ios::binary);
    ofstream of("newstud.txt", ios::binary);

    while (iff.read((char *)&s, sizeof(s)))
    {

        of.write((char *)&s, sizeof(s));
    }

    cout << "enter the new object at the end of file\n";

    s.Enter();
    of.write((char *)&s, sizeof(s));
    iff.close();
    of.close();
    remove("stud.txt");
    rename("newstud.txt", "stud.txt");
}

int main()
{
    int n = 1, c = 0;
    char a[10];
    ofstream f("stud.txt", ios::out | ios::binary);
    while (n)
    {
        n = 1;
        for (int i = 0; i < n; i++)
        {
            s.Enter();
            f.write((char *)&s, sizeof(s));
        }
        cout << "Press 1 to enter more or 0 to exit\n";
        cin >> n;
    }
    cout << "writing in binary file finished\n";
    f.close();
    copyabc();

    cout << "data in stud.dat after adding\n";
    ifstream fi("stud.txt", ios::in | ios::binary);
    while (fi.read((char *)&s, sizeof(s)))

```

```

    {
        s.Display();
    }

    return 0;
}

```

OUTPUT-3

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

Windows PowerShell
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```

PS D:\my codes\OOPS\OOPASSIG2> cd "d:\my codes\OOPS\OOPASSIG2\" ; if ($?) { g++ q3_adding_at_the_end.cpp -o q3
dding_at_the_end }
enter roll no and name
25
HITU
Press 1 to enter more or 0 to exit
1
enter roll no and name
32
ISHA
Press 1 to enter more or 0 to exit
0
writing in binary file finished
enter the new object at the end of file
enter roll no and name
300
TONY
data in stud.dat after adding

Rollno--->25
name--->HITU

Rollno--->32
name--->ISHA

Rollno--->300
name--->TONY
PS D:\my codes\OOPS\OOPASSIG2> █

```

Ln 75, Col 1

```

/*
Q4. Given a binary file APPLY.DAT containing records of the following classApplicant
type

Class Applicant
{char Rno[10];
 char name[30];
 int A_score;
public:void enroll()
{ gets(Rno);gets(Name);cin>>A_score; }
void Status(){ cout<<Rno<<endl<<name<<endl<<A_score; }
int ReturnScore() { return A_Score; }

```

```

};

Write a function in C++ that would read contents of file APPLY.DAT and
display the details of those students whose A_score is above 70.*/
#include <iostream>
#include <fstream>
#include <stdio.h>
using namespace std;
class Applicant
{
    char Rno[10];
    char name[30];
    int A_score;

public:
    void enroll()
    {
        cout << "enter roll name & score of applicant \n";
        cin >> Rno;
        cin >> name;
        cin >> A_score;
    }
    void Status()
    {
        cout << "\nrno--->" << Rno
            << "\nname--->" << name
            << "\nscore--->" << A_score << endl;
    }
    int ReturnScore()
    {
        return A_score;
    }
} s;

int main()
{
    int n = 1, c = 0;
    char a[10];
    ofstream f("appli.txt", ios::out | ios::binary);
    while (n)
    {
        n = 1;
        s.enroll();
        f.write((char *)&s, sizeof(s));
        cout << "Press 1 to enter more or 0 to exit\n";
        cin >> n;
    }
    cout << "writing in binary file finished\n";
    f.close();
    cout<<"applicant having score greater than 70 are \n";
}

```

```

ifstream fi("appli.txt", ios::in | ios::binary);
while (fi.read((char *)&s, sizeof(s)))
{
    if (s.ReturnScore() >= 70)
    {
        s.Status();
        c++;
    }
}

if (c == 0)
{
    cout << "no applicant found\n";
}
else
{
    cout << "req applicant displayed..... prog over\n";
}

return 0;
}

```

OUTPUT-4

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```

PS D:\my codes\OOPS\OOPASSIG2> cd "d:\my codes\OOPS\OOPASSIG2\" ; if ($?) { g++ q4_applicatn.cpp -o q4_applicatn } ; if ( 
enter roll name & score of applicant
25
HITU
79
Press 1 to enter more or 0 to exit
1
enter roll name & score of applicant
321
KRITIKA
77
Press 1 to enter more or 0 to exit
1
enter roll name & score of applicant
34
SIMRAN
80
Press 1 to enter more or 0 to exit
0
writing in binary file finished
applicant having score greater than 70 are

rno--->25
name--->HITU
score--->79

rno--->321
name--->KRITIKA
score--->77

rno--->34
name--->SIMRAN
score--->80
req applicant displayed..... prog over
PS D:\my codes\OOPS\OOPASSIG2>
    
```

```

/*Q5..Write a function in C++ to search for a BookNo from a binary file“BOOK.DAT”,  

assuming the binary file is containing the objects of thefollowing class.  

class Book  

{ int Bno;  

char Title[30];  

public : int RBno()  
  

{ return Bno;}  

void Enter()  

{ cin>>Bno;gets>Title);}  

void Display()  

{ cout<<Bno<<Tilte<<endl; }  

};  

*/  

#include <iostream>  

#include <fstream>  

#include <string.h>  

using namespace std;  

class Book  

{  

    int Bno;  

    char Title[30];  
  

public:  

    void Enter()  

    {  

        cout << "enter book no and title\n";  

        cin >> Bno;  

        cin >> Title;  

    }  

    void Display()  

    {  

        cout << "\nbook no--->" << Bno << "\ntitle no--->" << Title << endl;  

    }  

    int RBno()  

    {  

        return Bno;  

    }
}s;  
  

void search()
{
    int c = 0, a;  
  

    cout << "enter bookno. u want to search\n ";
    cin >> a;  
  

    ifstream fi("book.txt", ios::in | ios::binary);
    while (fi.read((char *)&s, sizeof(s)))
    {

```

```

    if (a == s.RBno())
    {
        s.Display();
        c++;
    }

if (c == 0)
{
    cout << "no books found\n";
}
else
{
    cout << "required books displayed..... prog over\n";
}

int main()
{
    int n = 1, c = 0;
    int a;
    ofstream f("book.txt", ios::out | ios::binary);
    while (n)
    {

        s.Enter();
        f.write((char *)&s, sizeof(s));

        cout << "Press 1 to enter more or 0 to exit\n";
        cin >> n;
    }
    cout << "writing in binary file finished\n";
    f.close();

    search();
    return 0;
}

```

OUTPUT-5

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
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PS D:\my codes\OOPS\OOPASSIG2> cd "d:\my codes\OOPS\OOPASSIG2\" ; if ($?) { g++ q5_book.cpp -o q5_book } ; if ($?
enter book no and title
234
TORRENT
Press 1 to enter more or 0 to exit
1
enter book no and title
231
EINSTEIN
Press 1 to enter more or 0 to exit
1
enter book no and title
3223
JAISHREERAM
Press 1 to enter more or 0 to exit
0
writing in binary file finished
enter bookno. u want to search
231

book no--->231
tiltle no--->EINSTEIN
required books displayed..... prog over
PS D:\my codes\OOPS\OOPASSIG2>
```

```
/*Q6.Given a binary file GAME.DAT, containing records of the following
structuretype:
Struct GAME
{char Gamename[30];
char participant[10][30];
};

write a functionin C++ that would read contents from the file GAME.DAT
andcreates a file named BASKET.DAT copying only those records
from GAME.DATwhere the game name is “Basket Ball”.*/
#include <iostream>
#include <fstream>
#include <string.h>
using namespace std;

struct GAME
{
    char gamename[30];
    char participant[10][30];
}s;

void newgame(char newgame[])
{
    int c = 0;
    cout << "creating new file for the game--->" << newgame;

    ifstream fi("game.txt", ios::in | ios::binary);
    ofstream of("newgame.txt", ios::binary);
    while (fi.read((char *)&s, sizeof(s)))
    {
        if (strcmp(s.gamename, newgame) == 0)
```

```

    {
        of.write((char *)&s, sizeof(s));

        c++;
    }
}

if (c == 0)
{
    cout << "no such game was found\n";
}
else
{
    cout << "req game copied to new file\n";
}
of.close();
fi.close();
}

int main()
{
    int n = 1, c = 0;
    ofstream f("game.txt", ios::out | ios::binary);
    while (n)
    {

        int a = 1, i = 0;
        ;
        cout << "enter the game name\n";
        cin >> s.gamename;

        cout << "enter the list of players\n";
        while (a)
        {
            cin >> s.participant[i];
            i++;
            strcpy(s.participant[i], "null");
            cout << "press 1 to enter more players else 0\n";
            cin >> a;
        }

        f.write((char *)&s, sizeof(s));

        cout << "Press 1 to enter more games or 0 to exit\n";
        cin >> n;
    }
    cout << "writing in binary file finished\n";
    f.close();

    cout << "which game u need to copy\n";
    char nwgame[100];
    cin >> nwgame;
    newgame(nwgame);
}

```

```

fstream fi("newgame.txt", ios::in | ios::binary);
while (fi.read((char *)&s, sizeof(s)))
{
{
    cout << s.gamenname << endl
        << "\n-----";
    for (int i = 0; strcmp(s.participant[i], "null") != 0; i++)
    {
        cout << "\n"
            << i + 1 << "----->" << s.participant[i] << endl;
    }
}
cout << "\n*****\n";
}

return 0;
}

```

OUTPUT-6

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL Code + ▾ □ ⌂ ▾ ×

Windows PowerShell
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PS D:\my codes\OOPS\OOPASSIG2> cd "d:\my codes\OOPS\OOPASSIG2\" ; if (\$?) { g++ q6_game.cpp -o q6_game } ; if (\$?) { ./q6_game }

enter the game name
BASKETBALL
enter the list of players
HITU
press 1 to enter more players else 0
1
JIYA
press 1 to enter more players else 0
1
RICH
press 1 to enter more players else 0
0
Press 1 to enter more games or 0 to exit
1
enter the game name
CHESS
enter the list of players
TIRTH
press 1 to enter more players else 0
1
ARNAV
press 1 to enter more players else 0
0
Press 1 to enter more games or 0 to exit
0
writing in binary file finished
which game u need to copy
BASKETBALL
Creating_new file for the game--->BASKETBALLreq game copied to new file
creating new file for the game--->BASKETBALLreq game copied to new file
BASKETBALL

1----->HITU
2----->JIYA
3----->RICH

PS D:\my codes\OOPS\OOPASSIG2>

```

/*
Q7.Following is the structure of each record in a data file named“PRODUCT.DAT”.
Struct PROD
{char PCODE[10];
 char DESC[10];
 int stock;
};

Write a function in C++ to update the
file with a new value of stock. Thevalue of stock and the PCODE , whose stock to be
updated
are read duringthe execution of the program.*/

#include <iostream>
#include <string.h>
#include <fstream>
#include <stdio.h>
using namespace std;

struct PROD
{
    char PCODE[10];
    char DESC[10];
    int stock;
}s;

void change_stock(char pcode[], int n)
{
    int c = 0,ro;
    ifstream iff("prod.txt", ios::binary);
    ofstream of("newprod.txt", ios::binary);

    while (iff.read((char *)&s, sizeof(s)))
    {
        if (strcmp(s.PCODE, pcode) == 0 && s.stock == n)
        {
            cout << "enter the value of new stock\n";
            cin >> s.stock;
            of.write((char *)&s, sizeof(s));
            c++;
        }
        else
        {
            of.write((char *)&s, sizeof(s));
        }
    }

    if (c == 0)
    {

        cout << "no prod found\n";
    }
}

```

```

}

else
{
    cout << "product updated successfully\n";
}
iff.close();
of.close();
remove("prod.txt");
rename("newprod.txt", "prod.txt");
}

int main()
{
    int stck;
    char pcode[10];
    int n = 1;
    ofstream f("prod.txt", ios::out | ios::binary);
    while (n)
    {

        cout << "enter prodcode description and stock of product:";

        cin >> s.PCODE >> s.DESC >> s.stock;

        f.write((char *)&s, sizeof(s));

        cout << "press 1 to enter next prod and 0 to exit\n";
        cin >> n;
    }
    f.close();
    cout << "writing in binary file finished\n";

    cout << "enter the stock and pcode u want to change\n";
    cin >> stck >> pcode;
    change_stock(pcode, stck);
    ifstream fi("prod.txt", ios::in | ios::binary);

    while (fi.read((char *)&s, sizeof(s)))
    {
        cout << "Prodcode--->" << s.PCODE << "\ndesc--->" << s.DESC << "\nstock--->" <<
s.stock;
        cout << "\n.....\n";
    }

    fi.close();
}

return 0;
}

```

OUTPUT-7

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

Code + ▾ ▷ □ ▨ ▾ ×

```
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PS D:\my codes\OOPS\OOPASSIG2> cd "d:\my codes\OOPS\OOPASSIG2\" ; if ($?) { g++ q7_upd.cpp -o q7_upd } ; if ($?) { .\q7_upd
d }
enter prodcode description and stock of product:231
MEDICINE
21
press 1 to enter next prod and 0 to exit
1
enter prodcode description and stock of product:321
ORAL
42
press 1 to enter next prod and 0 to exit
1
enter prodcode description and stock of product:122
SYRINGE
32
press 1 to enter next prod and 0 to exit
0
writing in binary file finished
enter the stock and pcode u want to change
32
122
enter the value of new stock
100
product updated successfully
Prodcode--->231
desc--->MEDICINE
stock--->21
.....
Prodcode--->321
desc--->ORAL
stock--->42
.....
Prodcode--->122
desc--->SYRINGE
stock--->100
.....
PS D:\my codes\OOPS\OOPASSIG2>
```

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```
/*Q8. Given a binary file TELE.DAT, containing records of the following
class director_025:
class director_025
{char Name[20];
char Address[30];
char areacode[5];
char phno[15];
public: void register();
void show();
int checkcode(char AC[])
{ return(strcmp(areacode,AC); }
};

Write a
function COPYABC() in C++ that would copy only those recordshaving areacode as
"123" from
TELE.DAT to TELEBACK.DAT.*/
#include <iostream>
#include <string.h>
```

```

#include <fstream>
using namespace std;

class director_025
{
    char Name[20];
    char Address[30];
    char areacode[50];
    char phno[20];

public:
    void reegister()
    {

        cout << "enter name addresss areacode pone no.\n";
        cin >> Name >> Address >> areacode >> phno;
    }

    void show()
    {
        cout << "Nmae--->" << Name << "\nAdress--->" << Address << "\n areacode--->" << areacode << "\nphno ---->" << phno;
        cout << "\n.....\n";
    };
    int checkcode(char AC[])
    {
        return (strcmp(areacode, AC));
    }
} s;

void copyabc(char a[])
{
    ifstream iff("tele.txt", ios::binary);
    ofstream of("teleback.txt", ios::binary);

    while (iff.read((char *)&s, sizeof(s)))
    {
        if (s.checkcode(a) == 0)
        {
            of.write((char *)&s, sizeof(s));
        }
    }
    iff.close();
    of.close();
}

int main()
{
    int n = 1;
}

```

```

ofstream f("tele.txt", ios::out | ios::binary);
while (n)
{
    s.reegister();
    f.write((char *)&s, sizeof(s));
    cout << "press 1 to continue entring and 0 to exit\n";
    cin >> n;
}
f.close();
char a[10];
strcpy(a, "123");
copyabc(a);
cout << "writing in binary file finished\n";

cout << "DATA IN \"TELE.DAT\"\n";

ifstream fi("tele.txt", ios::in | ios::binary);
while (fi.read((char *)&s, sizeof(s)))
{
    s.show();
}
cout << "\n.....\n";
cout << "DATA IN \"TELEback.DAT\"\n";
fi.close();
ifstream foi("teleback.txt", ios::in | ios::binary);
while (foi.read((char *)&s, sizeof(s)))
{
    s.show();
}
foi.close();
return 0;
}

```

OUTPUT-8

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

Code + ×

```
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PS D:\my codes\OOPS\OOPASSIG2> cd "d:\my codes\OOPS\OOPASSIG2\" ; if ($?) { g++ q8_bin.cpp -o q8_bin } ; if ($?) { .\q8_bin
n }
enter name addresss areacode pone no.
HITU
ranchi
123
980319211
press 1 to continue entring and 0 to exit
1
enter name addresss areacode pone no.
SIMRAN
upperbazar
321
980712722
press 1 to continue entring and 0 to exit
1
enter name addresss areacode pone no.
rahul
bihar
3232
3241121213
press 1 to continue entring and 0 to exit
0
writing in binary file finished
DATA IN "TELE.DAT"
Nmae--->HITU
Adress--->ranchi
areacode--->123
phno ---->980319211
.
.
.
Nmae--->SIMRAN
Adress--->upperbazar
areacode--->321
phno ---->980712722
.
.
.
Nmae--->rahul
Adress--->bihar
areacode--->3232
phno ---->3241121213
.
.
.
DATA IN "TELEback.DAT"
Nmae--->HITU
Adress--->ranchi
areacode--->123
phno ---->980319211
PS D:\my codes\OOPS\OOPASSIG2>
```

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2005025_Hitu raj