KALINGA INSTITUTE OF
INDUSTRIAL TECHNOLOGY (KIIT)

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ASSIGNMENT -2

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```
/*  Q1.
Assuming the class DRINKS_ dfined 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>
```

```cpp
#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");
```

```cpp
    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

File Edit Selection View Go Run Terminal Help   q1_drinks.cpp - OOPASSIG2 - Visual Studio Code

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   > Code +

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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 dsize and price
123
COCOCOLA
5
20
Press 1 to enter more or 0 to exit
1
enter dcode dname dsize and price
321
MAAZA
2
10
Press 1 to enter more or 0 to exit
1
enter dcode dname dsize 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>

⊗ 0 ⚠ 0   Ln 18, Col 19   Spaces: 4   UTF-8   CRLF   C++

```cpp
/*
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;
```

```cpp
        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

```
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 ($?) { g++ q2_marks.cpp -o q2_marks } ; if ($?) { .\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

```cpp
/*
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 thefollowing 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()
    {
```

```cpp
        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;
}
```

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL

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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>

 0                                                                                    Ln 75, Col
```

```
/*
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;}
```

```cpp
  };
  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";
```

```cpp
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 aplicant found\n";
}
else
{

    cout << "req applicant displayed..................... prog over\n";
}



return 0;
}
```

OUTPUT-4

```
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> █
```

```cpp
/*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 << "\ntiltle 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)))
    {
```

```cpp
        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;
}
```

```cpp
/*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)
```

```cpp
            {
                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);
```

```cpp
    fstream fi("newgame.txt", ios::in | ios::binary);
    while (fi.read((char *)&s, sizeof(s)))
    {

        {
            cout << s.gamename << 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;
}
```

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL                                    > Code + ∨ ⊞ 🗑 ∨ ×

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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
RICHA
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------>RICHA

**********************************************************
PS D:\my codes\OOPS\OOPASSIG2> []
                                                    Ln 10, Col 20   Spaces: 4   UTF-8   CRLF   C++   Win32
```

```cpp
/*
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";
```

```cpp
        }
        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

```
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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_up
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> █
```

Ln 76, Col 1   Spaces: 4   UTF-8   CRLF   C++   Win32   ℛ   ◯

```cpp
/*Q8. Given a binary file TELE.DAT, containing records of the following
classdirector_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>
```

```cpp
#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;
```

```cpp
    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

```
Windows PowerShell
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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 ($?) { g++ q8_bin.cpp -o q8_bi
n } ; if ($?) { .\q8_bi
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> █
```

Ln 55, Col 33   Spaces: 4   UTF-8   CRLF   C++   Win32   ⟲ 🔔

2005025_Hitu raj