LAB 11

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2005025_Hitu raj

```cpp
//i. WAP to display content of a file using character output function.
#include <iostream>
#include <fstream>

using namespace std;

int main()
{
    char ch[100],a;
    ofstream of("hitu.txt");

    of << "Hello how are you \nthis file is opened in ofstream using VS code";
 of.close();
    ifstream ifs("hitu.txt");
    while (ifs.eof() != 1)//char wise
    {
```

```cpp
        ifs.get(a);

        cout << a ;
    }
cout<<"\n.........................................\n";


    return 0;
```

```
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PS D:\my codes\OOPS\lab11_file> cd "d:\my codes\OOPS\lab11_file\" ; if ($?) { g++ q1_display_char.cpp -o q1_display_cha
r } ; if ($?) { .\q1_display_char }
Hello how are you
this file is opened in ofstream using VS codee
.........................................................
PS D:\my codes\OOPS\lab11_file> █
```

```cpp
//ii. WAP to copy content of one file to another.
#include <iostream>
#include <fstream>

using namespace std;

int main()
{
    char ch[100], a;
    ofstream of("hitu.txt");
    ofstream cof("copy.txt");

    of << "Hello how are you   \nthis file is opened in ofstream using VS
code\n 12312 my name is hitu raj";
    of.close();
    ifstream ifs;

    ifs.open("hitu.txt");

    while (ifs.eof() != 1)
    {
        ifs.get(a);
        cof << a;
    }
    ifs.close();
    cof.close();

    ifs.open("copy.txt");
```

```cpp
    while (ifs.eof() != 1)

    {
        ifs.getline(ch, 100);
        cout << ch;
    }
     ifs.close();

    return 0;
}
```

```
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PS D:\my codes\OOPS\lab11_file> cd "d:\my codes\OOPS\lab11_file\" ; if ($?) { g++ q2_coppyfile.cpp -o q2_coppyfile } ;
if ($?) { .\q2_coppyfile }
Hello how are you   this file is opened in ofstream using VS code 12312 my name is hitu rajj
PS D:\my codes\OOPS\lab11_file> █
```

```cpp
//iii. WAP to write 10 strings into a file and display them from file.
<<  >>
#include <iostream>
#include <fstream>

using namespace std;

int main()
{
    char ch[100];
    ofstream of("hitu.txt");

    of << "Hello how are you   \nthis file is opened in ofstream using VS
code";
 of.close();
    ifstream ifs("hitu.txt");
    while (ifs.eof() != 1)//word wise
    {
        ifs >> ch;

        cout << ch << " ";
    }
cout<<"\n........................................................\n";
```

```cpp
    return 0;
}
```

```
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PS D:\my codes\OOPS\lab11_file> cd "d:\my codes\OOPS\lab11_file\" ; if ($?) { g++ q3_10string.cpp -o q3_10string } ; if
 ($?) { .\q3_10string }
Hello how are you this file is opened in ofstream using VS code
......................................................
PS D:\my codes\OOPS\lab11_file> █
```

```cpp
// iv. WAP to display content of a file in reverse order.
#include <iostream>
#include <fstream>

using namespace std;

int main()
{
    char ch[100], a;
    ofstream of("hitu.txt");

    of << "Hello how are you this file is opened in ofstream using VS
code";
    of.close();
    ifstream ifs("hitu.txt");
    ifs.seekg(-1, ios::end);
    int x=ifs.tellg();
    while (x>=0) // char wise
    {
        ifs.seekg(-2, ios::cur);
        ifs.get(a);

        cout << a;
        x--;
    }
    cout <<
"\n......................................................\n";

    return 0;
```

}

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PS D:\my codes\OOPS\lab11_file> cd "d:\my codes\OOPS\lab11_file\" ; if ($?) { g++ q4_diplayreverse.cpp -o q4_diplayreve
rse } ; if ($?) { .\q4_diplayreverse }
oc SV gnisu maertsfo ni denepo si elif siht uoy era woh olleHHH
....
PS D:\my codes\OOPS\lab11_file> █

```cpp
/*v. WAP to count following in a given file:
a. No. of characters
b. No. of words
c. No. of lines
d. No. of uppercase letters, lowercase letters, digits and special
symbols.
*/
#include <iostream>
#include <fstream>

using namespace std;

int main()
{
    char ch[100], a;
    ofstream of("count.txt");

    of << "Hello how are you   \nthis file is opened in ofstream using VS
code\n 12312 my name is hitu raj";
    of.close();
    ifstream ifs;
    // char wise
    ifs.open("count.txt");
    int noc = 0;
    while (ifs.eof() != 1)
    {
        ifs.get(a);

        noc++;
    }
    cout << "char--->" << noc;
```

```cpp
    ifs.close();

    cout <<
"\n.........................................................\n";

    // word wise
    ifs.open("count.txt");
    int now = 0;
    while (ifs.eof() != 1)
    {
        ifs >> ch;

        now++;
    }
    cout << "Words--->" << now;
    cout <<
"\n.........................................................\n";
    ifs.close();

    // line wise
    ifs.open("count.txt");
    int nol = 0;
    while (ifs.eof() != 1)
    {
        ifs.getline(ch, 100);
        nol++;
    }
    cout << "line--->" << nol;
    ifs.close();
    cout <<
"\n.........................................................\n";


//uppper lower or digit
    ifs.open("count.txt");
    int low ,up,dig,ss;
    low=up=ss=dig=0;
    while (ifs.eof() != 1)
    {
        ifs.get(a);

        if(a>64&&a<91)
        up++;
        else if(a>=97&&a<=122)
        low++;
        else if(a>=48 &&a<=57)
        dig++;
```

```cpp
        else
        ss++;

    }
    cout << "lower case--->" << low<<endl;
        cout << "upper case--->" << up<<endl;

    cout << "digits case--->" << dig<<endl;

    cout << "special symbol case--->" << ss<<endl;

    ifs.close();


    return 0;
}
```

```
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PS D:\my codes\OOPS\lab11_file> cd "d:\my codes\OOPS\lab11_file\" ; if ($?) { g++ q5_count.cpp -o q5_count } ; if ($?)
{ .\q5_count }
char--->94
.......................................................
Words--->19
.......................................................
line--->3
.......................................................
lower case--->64
upper case--->3
digits case--->5
special symbol case--->22
PS D:\my codes\OOPS\lab11_file>
```

```cpp
/*vi. WAP to convert all uppercase letters in a given file, to lower case
and
vice-versa.*/
#include <iostream>
#include <fstream>

using namespace std;

int main()
{
    char ch[100], a;
    ofstream of;
    ifstream ifs;
```

```cpp
    of.open("uptodown.txt", ios::ate);

    of << "Hello how are you \nthis file is opened in ofstream using VS
code\n 12312 my name is hitu raj";

    cout << "before converting-------------->\n";

    ifs.open("uptolow.txt");
    ifs.clear();
    while (ifs.eof() != 1)

    {
        ifs.getline(ch, 100);
        cout << ch;
    }
    ifs.clear();
    ifs.seekg(0, ios::beg);

    while (ifs.eof() != 1)
    {
        ifs.get(a);

        if (a > 64 && a < 91)
        {
            a = a + 32;

            of.seekp(ifs.tellg());

            of.put(a);
        }

        else if (a >= 97 && a <= 122)
        {
            a = a - 32;

            of.seekp(ifs.tellg());
             of.put(a);
        }
    }

    cout << "\n after converting--------->\n";
    ifs.clear();

    ifs.seekg(0, ios::beg);

    while (ifs.eof() != 1)
```

```cpp
    {
        ifs.getline(ch, 100);
        cout << ch;
    }
    ifs.close();
    of.close();

    return 0;
}
```

```
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 ($?) { .\q6_upptolow }
before converting--------------->
Hello how are you    this file is opened in ofstream using VS code 12312 my name is hitu raj
 after converting--------->
hELLO HOW ARE YOU    THIS FILE IS OPENED IN OFSTREAM USING vs CODE 12312 MY NAME IS HITU RAJj
PS D:\my codes\OOPS\lab11_file> █
```

```cpp
/*Vii.Write a program that takes student data (roll number, name, gender,
marks in three subjects (phy, chem. &amp; math) from the keyboard and
store it to a file student.txt.
k=Atoi(n);*/

#include <iostream>
#include <fstream>

using namespace std;

struct stud
{
    int roll, marks[3];
    char name[20], gen;

} s;

int main()
{
    int n;
    cout << "how many students u have\n";
    cin >> n;
    ofstream f("binary.txt",  ios::out | ios::binary);
```

```cpp
    for (int i = 0; i < n; i++)
    {

        cout << "enter name roll gen and marks of" << i + 1 <<
"student:";
        // ts(s.name);
        cin >> s.name >> s.roll >> s.gen >> s.marks[0] >> s.marks[1] >>
s.marks[2];

        f.write((char *)&s, sizeof(s));
    }
    f.close();
    ifstream fi("binary.txt", ios::in  | ios::binary);
    for (int i = 0; i < n; i++)
    {

        // ts(s.name);

        fi.read((char *)&s, sizeof(s));
        cout << "Nmae--->" << s.name << "\nRoll--->" << s.roll <<
"\ngender--->" << s.gen << "\nMarks ---->" << s.marks[0] << " " <<
s.marks[1] << " " << s.marks[2];
        cout <<
"\n.......................................................\n";
    }

    return 0;
}
```

OUTPUT-7

```cpp
///*viii. WAP to read and write objects to a file, using read and write
//functions.

#include <iostream>
#include <fstream>
#include <string.h>

struct guest
{
    char name[100], email[10];
    int no;
};

using namespace std;

int main()
{
    char name[100];
    int n = 1, c = 0;
    struct guest s;
    ofstream of("myguest.txt", ios::binary);
    while (n)
    {
```

```cpp
        cout << "enter name ,phoneno,email  ";
        cin >> s.name;
        cin >> s.no;
        cin >> s.email;
        of.write((char *)&s, sizeof(s));

        cout << "press 1 is you have next guest or 0 to stop entring ";
        cin >> n;
    }
    of.close();
    cout << "enter the name u want to edit phone no.";
    cin >> name;
    fstream is("myguest.txt", ios::binary | ios::in | ios::out);
    ofstream ofss("newfile.txt", ios::binary);
    while (is.read((char *)&s, sizeof(s)))

    {

        if (strcmp(s.name, name) == 0)
        {
            int phno;
            cout << "enter the phone no. u want to edit for " << s.name;
            cin >> phno;

            s.no = phno;
            ofss.write((char *)&s, sizeof(s));
        }

        else
        {
            ofss.write((char *)&s, sizeof(s));
        }

    }
    is.close();
    ofss.close();

    ifstream ofs("newfile.txt", ios::binary);
    while (ofs.read((char *)&s, sizeof(s)))

    {

        cout << "name--->" << s.name << "\n";
        cout << "phone----> " << s.no << "\n";
        cout << "email--->" << s.email << "\n";
```

```cpp
        cout <<
"\n...........................................................\n";
        c++;
    }
    cout << "total no. of quest is " << c;
    ofs.close();

    return 0;
}
```

```
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PS D:\my codes\OOPS\lab11_file> cd "d:\my codes\OOPS\lab11_file\" ; if ($?) { g++ TEST.CPP -o TEST } ; if ($?) { .\TEST
 }
enter name ,phoneno,email  hitu
3423
rajhitu10@gmail.com
press 1 is you have next guest or 0 to stop entring 1
enter name ,phoneno,email  ishamylove
2311
ishailoveu@123
press 1 is you have next guest or 0 to stop entring 1
enter name ,phoneno,email  rahul
3233
plsdosomething@123
press 1 is you have next guest or 0 to stop entring 0
enter the name u want to edit phone no.isha
name---->hitu
phone----> 778856801
email--->rajhitu10@gmail.

.........................................................
name---->ishamylove
phone----> 13106
email--->ishailoveu@123

.........................................................
name---->rahul
phone----> 826304366
email--->plsdosomething@1

.........................................................
total no. of quest is 3
PS D:\my codes\OOPS\lab11_file>

                                       Ln 16, Col 11   Spaces: 4   UTF-8   CRLF   C++   Win32
```

```cpp
//ix. WAP to write multiple data to a file using insertion operator and
read
//data from file using extraction operator.
#include <iostream>
#include <fstream>

using namespace std;

int main()
{
    char ch[100],a;
```

```cpp
    ofstream of("hitu.txt");

    of << "Hello how are you \n";
    of<<"\nthis file is opened in ofstream using VS code";
 of.close();

 cout<<"the data enter in the file is : \n";
    ifstream ifs("hitu.txt");
    while (ifs.eof() != 1)//char wise
    {
        ifs>>ch;

        cout << ch ;
    }
cout<<"\n.........................................................\n";


    return 0;
}
```

OUTPUT-9

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL                                        Code + ∨ ⊡ 🗑 ∨ ✕

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PS D:\my codes\OOPS\lab11_file> cd "d:\my codes\OOPS\lab11_file\" ; if ($?) { g++ q9_multiple_data.cpp -o q9_multiple_d
ata } ; if ($?) { .\q9_multiple_data }
the data enter in the file is :
HellohowareyouthisfileisopenedinofstreamusingVScode
.........................................................
PS D:\my codes\OOPS\lab11_file> ▮
```

2005025_Hitu raj