

# Final Exam

*by* I Kadek Yau Dwi Mega Saputra

---

**Submission date:** 13-May-2020 01:28PM (UTC+0800)

**Submission ID:** 1323115938

**File name:** E1800175.docx (476.2K)

**Word count:** 776

**Character count:** 5120

# **Final Exam**

**BIT 205**

**“C++”**



**Name: I Kadek Yau Dwi Mega Saputra**

**Student ID: E1800175**

## CODE C++:

---

```
#include <iostream>
#include <fstream>
#include <conio.h>
#include <string.h>
#include <stdlib.h>
#include <ctime>

using namespace std;

typedef struct user
{
    int id;
    char Username[20], Email[50], DateJoined[25];
} user;
typedef struct member
{
    int id;
    char Level;
} member;
typedef struct trainer
{
    int id;
    char Specialty[100];
} trainer;

ifstream fi;
```

```

ofstream fo;
user usr;
member mbr;
trainer tnr;

char choose_menu, choose_level, info, r;
char username[20], email[50], datejoined[25], level,
specialty[100];
int no,code;

void create(){
fo.open("usr.dat", ios::binary | ios::app);
    //add User
    usr.id=no;
    cout << "Username      : ";
    cin >> usr.Username;
    cout << "Email          : ";
    cin >> usr.Email;
    cout << "Date Join      : ";
    cin >> usr.DateJoined;
    cout <<endl;
    cout << "=====Level===== " <<endl;
    cout << "|B / b| To Become Beginner" <<endl;
    cout << "|I / i| To Become Intermediate" <<endl;
    cout << "|E / e| To Become Expert" <<endl;
    cout <<"Select :";
    cin>>choose_level;

    if(choose_level=='B' or choose_level=='b'){

```

```

        fo.write((char *) &usr, sizeof(usr));
        fo.close();
        //

        cout << "Beginner" <<endl;
        //add level (input level)
        fo.open("member.dat", ios::binary | ios::app);
        mbr.id=no;
        mbr.Level=level;
        fo.write((char *) &mbr, sizeof(mbr));
        fo.close();
        //
        cout << "=====Specialty===== "
<<endl;

        //add specialty
        fstream f;
        f.open("specialty.dat", ios::binary | ios::app);
        tnr.id=no;
        cout << "Specialty      : ";
        cin >> tnr.Specialty;
        f.write((char *) &tnr, sizeof(tnr));
        f.close();

    }
    else if(choose_level=='I' or choose_level=='i'){
        fo.write((char *) &usr, sizeof(usr));
        fo.close();
        //

```

```

        cout << "Beginner" <<endl;
        //add level (input level)
        fo.open("member.dat", ios::binary | ios::app);
        mbr.id=no;
        mbr.Level=level;
        fo.write((char *) &mbr, sizeof(mbr));
        fo.close();
        //
        cout << "=====Specialty===== "
<<endl;

        //add specialty
        fstream f;
        f.open("specialty.dat", ios::binary | ios::app);
        tnr.id=no;
        cout << "Specialty      : ";
        cin >> tnr.Specialty;
        f.write((char *) &tnr, sizeof(tnr));
        f.close();
    }
    else if(choose_level=='E' or choose_level=='e'){
        fo.write((char *) &usr, sizeof(usr));
        fo.close();
        //

        cout << "Beginner" <<endl;
        //add level (input level)
        fo.open("member.dat", ios::binary | ios::app);
        mbr.id=no;
        mbr.Level=level;

```

```

        fo.write((char *) &mbr, sizeof(mbr));
        fo.close();
        //
        cout << "=====Specialty===== "

<<endl;

        //add specialty
        fstream f;
        f.open("specialty.dat", ios::binary | ios::app);
        tnr.id=no;
        cout << "Specialty      : ";
        cin >> tnr.Specialty;
        f.write((char *) &tnr, sizeof(tnr));
        f.close();

    }
    else{
        cout<<"No Level Selected"<<endl;
    }

}

void deletedata(){
    cout << "=====Deleted===== " <<endl;
    fi.open("usr.dat", ios::binary);
    while(fi.read((char *) &usr, sizeof(usr)))
    {
        cout << "Username      : " <<usr.Username <<endl;
        cout << "Email          : " <<usr.Email <<endl;
    }
}

```

```

        cout << "Date Join      : "
<<usr.DateJoined<<endl;
    }
    fi.close();

    cout <<"Input Email To Deleted the data:";
    cin>>email;

    cout << "===== " <<endl;
    fi.open("usr.dat", ios::binary);
    fo.open("tmp.dat", ios::out|ios::binary);
    int fd = 0;
    while(fi.read((char*) &usr, sizeof(usr)))
    {
        if(strcmp(usr.Email, email) == 0)
        {
            fd = 1;
        }
        else{
            fo.write((char*)&usr, sizeof(usr));
        }
    }
    fi.close();
    fo.close();
    remove("usr.dat");
    rename("tmp.dat", "usr.dat");
    if (fd ==1)
    {

```



```

        cout<<"Email " << email << " Has Been
Deleted!\n";
    }
    else{
        cout<<"ID " << email << " Not Founded!\n";
    }
}

void newdata(){
    fi.open("usr.dat", ios::binary);
    cout << "Username      : " <<usr.Username <<endl;
    cout << "Email          : " <<usr.Email <<endl;
    cout << "Date Join       : " <<usr.DateJoined<<endl;
    fi.close();
}

void listdata(){
    cout << "=====USER===== " <<endl;
    fi.open("usr.dat", ios::binary);
    while(fi.read((char *) &usr, sizeof(usr)))
    {
        cout << "Username      : " <<usr.Username <<endl;
        cout << "Email          : " <<usr.Email <<endl;
        cout << "Date Join       : "
<<usr.DateJoined<<endl;
    }
    fi.close();

    cout <<"Input Email To View Info:";

```

```

        cin>>email;

        fstream f;
        f.open("usr.dat", ios::in|ios::out );
        while(f.read((char *) &usr, sizeof(usr))){

                if(strcmp(usr.Email, email) == 0) {
                        //view all detail
                        cout << "Username      : "
<<usr.Username <<endl;
                        cout << "Email        : " <<usr.Email
<<endl;
                        cout << "Date Join   : "
<<usr.DateJoined<<endl;
                        code=usr.id;
                }

        }
        f.close();
        code=code;

        f.open("member.dat", ios::in|ios::out );
        while(f.read((char *) &mbr, sizeof(mbr))){

                if(mbr.id, code == 0) {
                        //view all detail
                        cout << "Level        : "
<<mbr.Level<<endl;
                }

        }
        f.close();

```

```

        f.open("specialty.dat", ios::in|ios::out );
        while(f.read((char *) &tnr, sizeof(tnr))){

            if(code, tnr.id == 0) {
                //view all detail
                cout << "Specialty      : "
<<tnr.Specialty<<endl;
            }
        }
        f.close();

    }

int main()
{
    no=0;

    do{
        fi.open("usr.dat", ios::binary);
        while(fi.read((char *) &usr, sizeof(usr)))
        {
            no=usr.id;
        }
        fi.close();

        no=no+1;
        cout << "=====Menu===== " <<endl<<endl;
    }
}

```

```

        cout << "|A / 1| To Add a new user." <<endl;
        cout << "|E / 2| To Edit an exiting user." <<endl;
        cout << "|D / 3| To Deleted an exiting user." <<endl;
        cout << "|V / 4| To View new user." <<endl;
        cout << "|L / 5| To List All user." <<endl;

        cout << "|M / 6| (Menu) To perform the tasks from 1 -
5." <<endl<<endl;

        cout <<"Select : ";

        cin>>choose_menu;

        if(choose_menu == '1' or choose_menu=='A' or
choose_menu=='a'){

            create();

        }

        else if(choose_menu == '2' or choose_menu=='E' or
choose_menu=='e'){

        }

        else if(choose_menu == '3' or choose_menu=='D' or
choose_menu=='d'){

            deletedata();

        }

        else if(choose_menu == '4' or choose_menu=='V' or
choose_menu=='v'){

            newdata();

        }

```

```

        else if(choose_menu == '5' or choose_menu=='L' or
choose_menu=='l'){
            listdata();
        }
        else if(choose_menu == '6' or choose_menu=='M' or
choose_menu=='m'){
            create();
            deletedata();
            newdata();
            listdata();
        }
        else{
            cout<<"not menu selected"<<endl<<endl;
        }

        cout<<"Do you wish to Restart ? (y/n)??";
        cin>>r;
        system ("CLS");
    }

    while(r=='y' or r=='Y');
        //end if

}

```

## SCREENSHOT:

```
D:\CAMP\CAssignment\Final_Test\bin\Debug\Final_Test.exe
=====Ping=====
[A / 1] To Add a new user.
[E / 2] To Edit an existing user.
[D / 3] To Deleted an existing user.
[V / 4] To View new user.
[L / 5] To list All user.
[M / 6] (Menu) To perform the tasks from 1 to 5.
Select :

```

```
D:\CAMP\CAssignment\Final_Test\bin\Debug\Final_Test.exe
=====Ping=====
[A / 1] To Add a new user.
[E / 2] To Edit an existing user.
[D / 3] To Deleted an existing user.
[V / 4] To View new user.
[L / 5] To list All user.
[M / 6] (Menu) To perform the tasks from 1 to 5.
Select : 1
Username : 1
Email : 1
Date Join : 1
=====Level=====
[B / b] To Become Beginner
[I / i] To Become Intermediate
[E / e] To Become Expert
Select : b
Beginner
=====Specialty=====
Specialty : 1
Do you wish to Restart ? (y/n)??

```

```

C:\CAMP\Assignment\final_Test\bin\Debug\final_Test.exe
=====PENG=====
[A / 1] To Add a new user.
[E / 2] To Edit an exiting user.
[D / 3] To Deleted an exiting user.
[V / 4] To View new user.
[L / 5] To List All user.
[N / 6] (Menu) To perform the tasks from 1 to 5.

Select : 5
=====USER=====
Username : 1
Email : 1
Date Join : 1
Username : 2
Email : 2
Date Join : 2
Username : 1
Email : 1
Date Join : 1
Input Email To View Info:

```

```

C:\CAMP\Assignment\final_Test\bin\Debug\final_Test.exe
=====PENG=====
[A / 1] To Add a new user.
[E / 2] To Edit an exiting user.
[D / 3] To Deleted an exiting user.
[V / 4] To View new user.
[L / 5] To List All user.
[N / 6] (Menu) To perform the tasks from 1 to 5.

Select : 3
=====Deleted=====
Username : 1
Email : 1
Date Join : 1
Username : 2
Email : 2
Date Join : 2
Username : 1
Email : 1
Date Join : 1
Input Email To Deleted the data:1
=====
ID 1 Has Been Deleted!
Do you wish to Restart ? (y/n)?

```