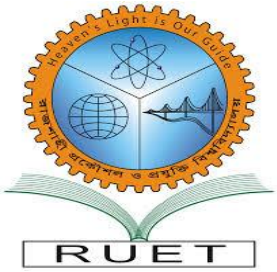
Heaven's Light is Our Guide



Rajshahi University of Engineering and Technology

Department of Computer Science and Engineering

Course No: CSE.1204

Course Title: Sessional based on CSE.1203 (Object Oriented Programming)

Lab Report No: 04

Lab Report On: Use of File in Mobile Banking Apps.

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Problem No: 01

Problem Statement: Implementation of FILE in Rocket type Apps.

Theory : Many applications require that information be written to or read from an auxiliary memory device.Such information is stored on the memory device in the form of a **data file**.Thus,data files allow us to store information permanently, and to access and alter that information whenever necessary.

In C++, files are mainly dealt by using ifstream, ofstream available in fstream headerfile.

fstream : Headerfile to both read and write from/to files.
ofstream : To **write** on files.
ifstream : To **read** from files.

Now the first step to open the particular file for read or write operation. We can write on files by using "**ofstream**" function -

```
ofstream obj;
obj.open("filename");
obj << "DATA";
```

We can read from files by using "**ifstream**" function -

```
ifstream obj;
obj.open("filename");
obj >> "DATA";
```

After reading from or writing to files we should close the files by " **close ()** " function to free the file pointer –

```
Obj.close ();
```

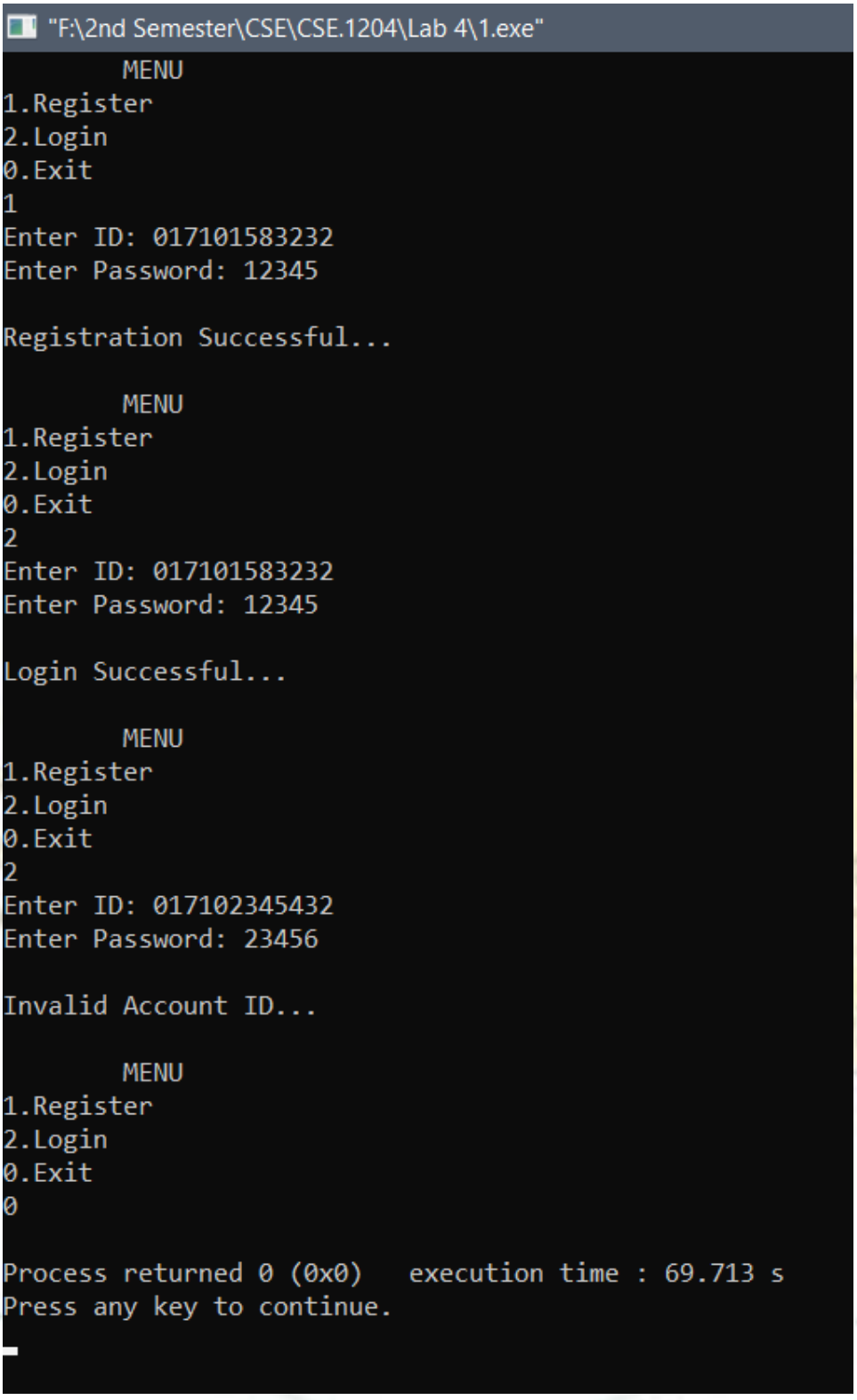
If we don't close the file,next time when open that file the file pointer will be at where we last read or wrote.

Source Code :

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

using namespace std;

void menu()
{
   cout<<"\tMENU\n1.Register\n2.Login\n0.Exit\n";
}
int main()
{
   int a;
   char id[12],pass[10],fname[20],f_id[12],f_pass[10];
   menu();
   cin>>a;
   while(a!=0)
   {
      if(a==1)
      {
         cout<<"Enter ID: ";
         cin>>id;
         cout<<"Enter Password: ";
         cin>>pass;
         strcpy(fname,id);
         strcat(fname,".txt");

         ofstream obj1;

         obj1.open(fname);
         obj1<<id<<"\n"<<pass<<endl;
         obj1.close();
         cout<<"\nRegistration Successful...\n"<<endl;
         menu();
         cin>>a;
      }

      else if(a==2)
      {
         cout<<"Enter ID: ";
         cin>>id;
```

```
        cout<<"Enter Password: ";
        cin>>pass;
        strcpy(fname,id);
        strcat(fname,".txt");

        ifstream obj2;
        obj2.open(fname);
        if(obj2)
        {
           obj2>>f_id;
           obj2>>f_pass;
           if((strcmp(f_id,id)==0)&&(strcmp(f_pass,pass)==0))
           {
              cout<<"\nLogin Successful...\n"<<endl;
           }
           else
           {
              cout<<"\nInvalid ID or Password...\n"<<endl;
           }
           obj2.close();
           menu();
           cin>>a;
        }
        else
        {
           cout<<"\nInvalid Account ID...\n"<<endl;
           menu();
           cin>>a;
        }
     }
  }


  return 0;
}
```

Output:



Conclusion : By our Course Teachers help and my knowledge about C and C++, I completed the program.

 # The End #