TASK-08

```cpp
cc.cpp > ...
1    #include <iostream>
2    #include <fstream>
3    #include <string>
4
5    using namespace std;
6
7    void signUp();
8    void login();
9    bool isUserExist(const string& username);
10   bool verifyCredentials(const string& username, const string& password);
11
12   int main() {
13       int choice;
14       bool exit = false;
15
16       while (!exit) {
17           cout << "\nMenu:\n";
18           cout << "1. Signup\n";
19           cout << "2. Login\n";
20           cout << "3. Exit\n";
21           cout << "Choose an option: ";
22           cin >> choice;
23
24           switch (choice) {
25               case 1:
26                   signUp();
27                   break;
28               case 2:
29                   login();
30                   break;
31               case 3:
32                   exit = true;
33                   break;
34               default:
35                   cout << "Invalid choice. Please try again." << endl;
36           }
37       }
38
39       return 0;
```

```cpp
G cc.cpp > ...
 12    int main() {

 40    }

 41

 42    void signUp() {
 43        string username, password;
 44        cout << "Enter username: ";
 45        cin >> username;

 46

 47        if (isUserExist(username)) {
 48            cout << "Username already exists. Try a different one." << endl;
 49            return;
 50        }

 51

 52        cout << "Enter password: ";
 53        cin >> password;

 54

 55        ofstream outFile("users.txt", ios::app);
 56        outFile << username << " " << password << endl;
 57        outFile.close();

 58

 59        cout << "User registered successfully!" << endl;
 60    }

 61

 62    void login() {
 63        string username, password;
 64        cout << "Enter username: ";
 65        cin >> username;
 66        cout << "Enter password: ";
 67        cin >> password;

 68

 69        if (verifyCredentials(username, password)) {
 70            cout << "Login successful!" << endl;
 71        } else {
 72            cout << "Invalid username or password." << endl;
 73        }
 74    }

 75

 76    bool isUserExist(const string& username) {
```

```cpp
62   void login() {
66       cout << "Enter password: ";
67       cin >> password;
68
69       if (verifyCredentials(username, password)) {
70           cout << "Login successful!" << endl;
71       } else {
72           cout << "Invalid username or password." << endl;
73       }
74   }
75
76   bool isUserExist(const string& username) {
77       ifstream inFile("users.txt");
78       string user, pass;
79       while (inFile >> user >> pass) {
80           if (user == username) {
81               return true;
82           }
83       }
84       return false;
85   }
86
87   bool verifyCredentials(const string& username, const string& password) {
88       ifstream inFile("users.txt");
89       string user, pass;
90       while (inFile >> user >> pass) {
91           if (user == username && pass == password) {
92               return true;
93           }
94       }
95       return false;
96   }
```

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                        Terminal
Menu:
1. Signup
2. Login
3. Exit
Choose an option: 1
Enter username: jiyaa@gmail.com
Username already exists. Try a different one.

Menu:
1. Signup
2. Login
3. Exit
Choose an option: 2
Enter username: jiyaa@gmail.com
Enter password: 12
Invalid username or password.

Menu:
1. Signup
2. Login
3. Exit
Choose an option: 2
Enter username: jiyaa@gmail.com
Enter password: 1234
Login successful!

Menu:
1. Signup
2. Login
3. Exit
Choose an option: 2
Enter username: jiyaa
Enter password: 123
Invalid username or password.

Menu:
1. Signup
2. Login
3. Exit
Choose an option: 3
PS C:\Users\h1831\OneDrive\Desktop\c++> 
```

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```
PS C:\Users\h1831\OneDrive\Desktop\c++> cd "c:\Users\h1831\OneDrive\Desktop
\c++\" ; if ($?) { g++ cc.cpp -o cc } ; if ($?) { .\cc }

Menu:
1. Signup
2. Login
3. Exit
Choose an option: 1
Enter username: jiyaa@gmail.com
Enter password: 1234
User registered successfully!

Menu:
1. Signup
2. Login
3. Exit
Choose an option: 1
Enter username: jiyaa@gmail.com
Username already exists. Try a different one.

Menu:
1. Signup
2. Login
3. Exit
Choose an option: 2
Enter username: jiyaa@gmail.com
Enter password: 12
Invalid username or password.

Menu:
1. Signup
2. Login
3. Exit
Choose an option: 2
Enter username: jiyaa@gmail.com
Enter password: 1234
Login successful!

Menu:
1. Signup
2. Login
```

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