

```
1 // Attached:
2 // File      :
3 // =====
4 // Programmer: Ashley Syhongpan
5 // Class      : CS 1B
6 // Instructor: Med Mogasemi
7 // =====
8 // Program:   (HW_1d)
9 // =====
10 // Description:
11 //
12 // =====
13 // =====
14
15 #include <iostream>
16 #include <iomanip>
17 #include <string>
18 #include <fstream>
19 using namespace std;
20
21 // function prototypes
22 void getLogin(string& id, string& pw);
23 bool validateLogin(string id, string pw);
24 void showResult(bool valid);
25
26 // =====
27 // ==== main =====
28 // =====
29 int main()
30 {
31     string id;
32     string pw;
33     bool valid;
34
35     // function used to get id and password from user
36     getLogin(id, pw);
37
38     // function used to validate login information
39     valid = validateLogin(id, pw);
40
41     // function used to output if login is valid
42     showResult(valid);
43
44 } // END - int main()
45 // =====
46
47
48
49
```

```
50 // =====
51 // ===== function declaration =====
52 // =====
53
54 // ==== getLogin =====
55 // This function prompts the user for login information.
56 //
57 // Input:
58 // ID and password.
59 //
60 // Output:
61 // ID and password.
62 // =====
63 void getLogin(string& id, string& pw)
64 {
65     cout << left;
66
67     cout << setw(17);
68     cout << "Enter your ID: ";
69     getline(cin, id);
70
71     cout << setw(17);
72     cout << "Enter your PW: ";
73     getline(cin, pw);
74
75     cout << right;
76 } // END - getLogin()
77 // =====
78
79
80
81
82 // ==== validateLogin =====
83 // This function prompts the user for login information.
84 //
85 // Input:
86 // ID and password.
87 //
88 // Output:
89 // ID and password.
90 // =====
91 bool validateLogin(string id, string pw)
92 {
93     fstream inFile;
94     inFile.open("login.txt", ios::in);
95     if (inFile.is_open())
96     {
97         string login;
98         getline(inFile, login);
```

```
99
100     if (login.compare(id) == 0)
101     {
102         getline(inFile, login);
103         if (login.compare(pw) == 0)
104         {
105             return true;
106         }
107     }
108     inFile.close();
109 }
110
111     return false;
112 } // END - getLogin()
113 // =====
114
115
116
117
118 // ==== showResult =====
119 // This function prompts the user for login information.
120 //
121 // Input:
122 // ID and password.
123 //
124 // Output:
125 // ID and password.
126 // =====
127 void showResult(bool valid)
128 {
129     if (valid)
130         cout << "Valid";
131
132     else
133         cout << "Invalid";
134
135 } // END - getLogin()
136 // =====
137
138 /* ===== Output =====
139     incomplete
140 */
```