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EXPERIMENT-10:

AIM: Write a program and perform Agile Testing by creating User Stories & Scenarios.

CODE:

User Story:

As a user,
I want to log into the system using my username and password,
so that I can access my account securely.

Acceptance Criteria:

1. The system should allow input of username and password.
2. The system should validate that fields are not empty.
3. The system should authenticate against stored credentials.
4. It should display a welcome message on success.
5. It should display an error message on failure.

C++ Program: Login System with Agile Testing

```
#include <iostream>
```

```
#include <map>
```

```
using namespace std;
```

```
map<string, string> userDB = {  
    {"user1", "pass1"},  
    {"admin", "admin123"}  
};
```

```
// Login function
```

```
string login(string username, string password) {  
    if (username.empty() || password.empty()) {  
        return "Error: Fields cannot be empty";  
    }  
    if (userDB.count(username) && userDB[username] == password) {  
        return "Login successful";  
    }  
}
```

```

    } else {
        return "Invalid credentials";
    }
}

void runTests() {
    cout << "TS1: " << login("", "pass1") << endl;    // Empty username
    cout << "TS1: " << login("user1", "") << endl;    // Empty password
    cout << "TS2: " << login("user1", "pass1") << endl;    // Correct login
    cout << "TS3: " << login("user1", "wrongpass") << endl;    // Incorrect password
    cout << "TS4: " << login("nouser", "nopass") << endl;    // User doesn't exist
    cout << "TS6: " << login("!@#$", "^&*()") << endl;    // Special characters
}

int main() {
    runTests();
    return 0;
}

```