

SAMPLE RUN OF CHAT PROTOCOL

OS: Windows

The files are run through command prompt.

ID and Passwords hardcoded for this run are:

ID	PASSWORD
Akshay	qwerty
John	password
Sara	12345

- Initiating the server:

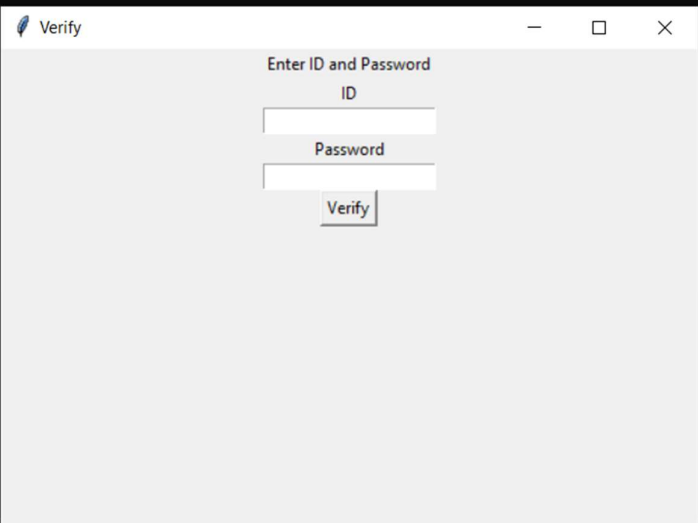
```
C:\Windows\System32\cmd.exe - py server.py
Microsoft Windows [Version 10.0.19043.1645]
(c) Microsoft Corporation. All rights reserved.

C:\Users\aksha\Desktop\drexel assignments\Final implementation>py server.py
Listening on port: 8080
```

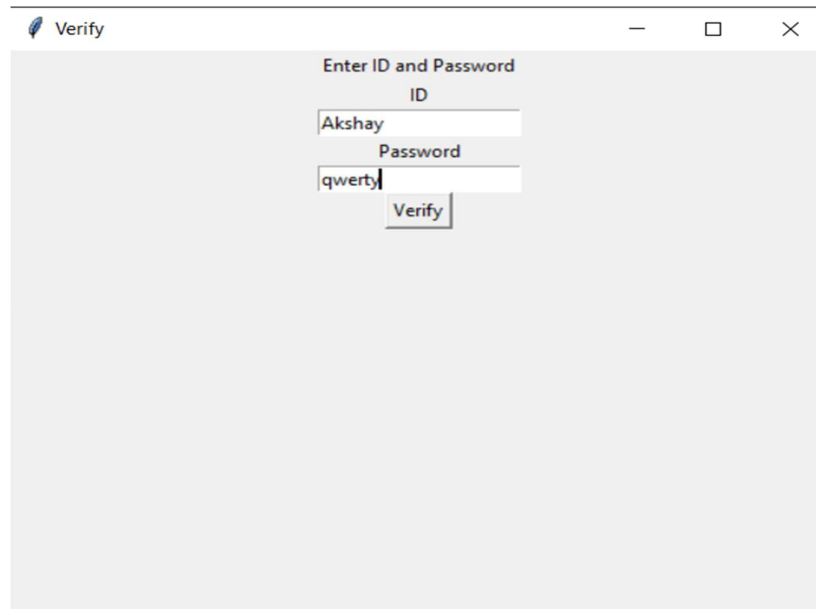
- Initiating Client:

```
C:\Windows\System32\cmd.exe - py client.py
Microsoft Windows [Version 10.0.19043.1645]
(c) Microsoft Corporation. All rights reserved.

C:\Users\aksha\Desktop\drexel assignments\Final implementation>py client.py
Socket address is 172.16.10.19..56845
```

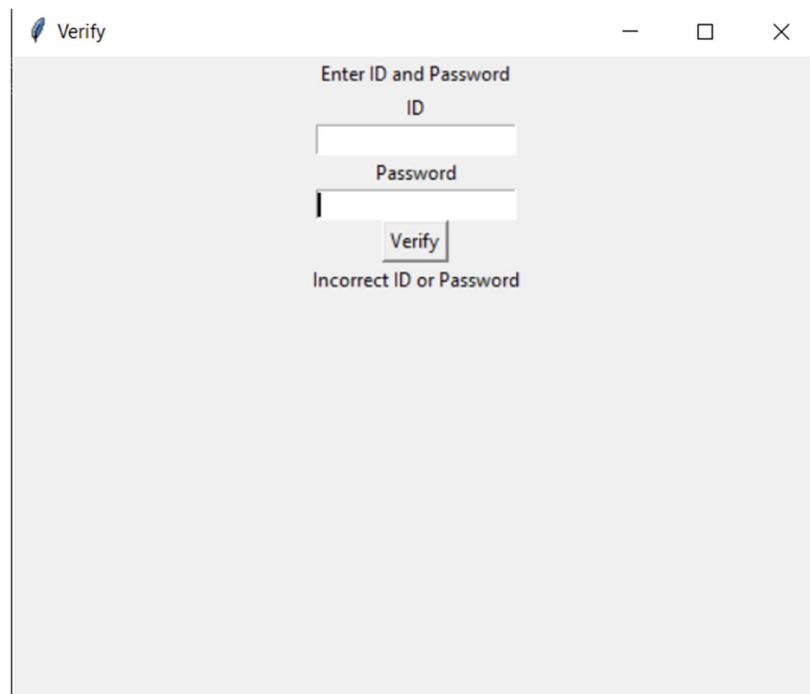


- User 1 is verified with credentials:



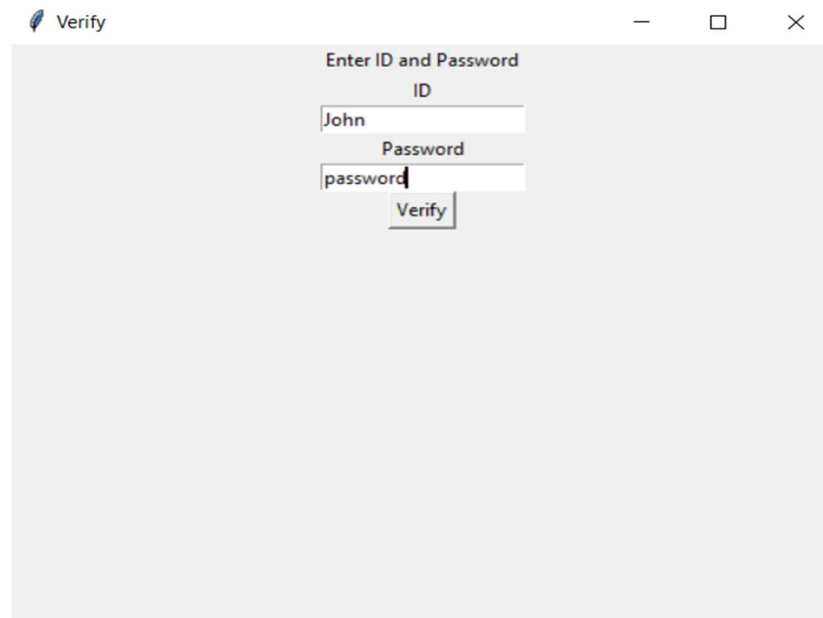
A screenshot of a window titled "Verify" with standard Windows window controls (minimize, maximize, close). The window contains a form titled "Enter ID and Password". The form has two input fields: "ID" with the text "Akshay" and "Password" with the text "qwerty". Below the password field is a "Verify" button.

- If wrong credentials are entered

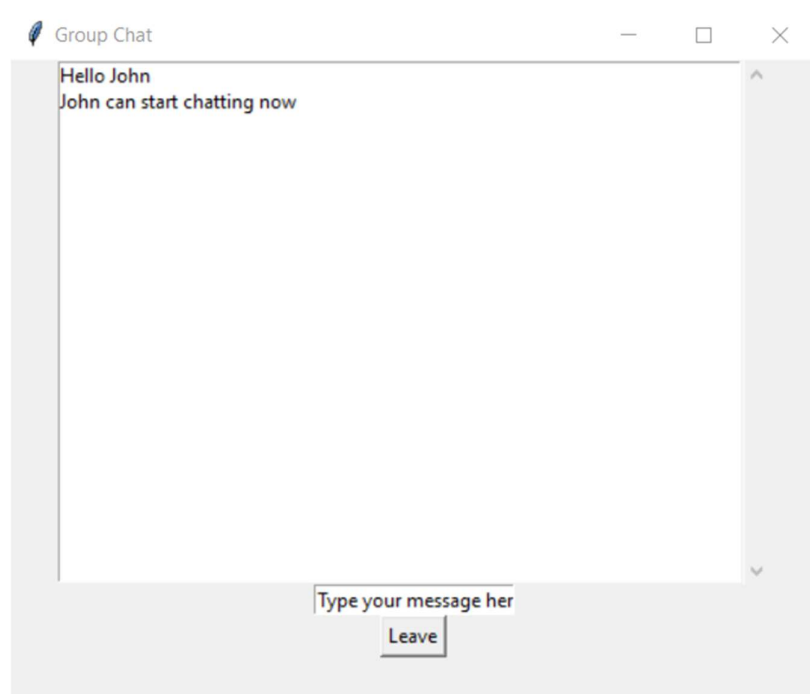


A screenshot of a window titled "Verify" with standard Windows window controls (minimize, maximize, close). The window contains a form titled "Enter ID and Password". The form has two input fields: "ID" and "Password", both of which are empty. Below the password field is a "Verify" button. Below the "Verify" button, the text "Incorrect ID or Password" is displayed.

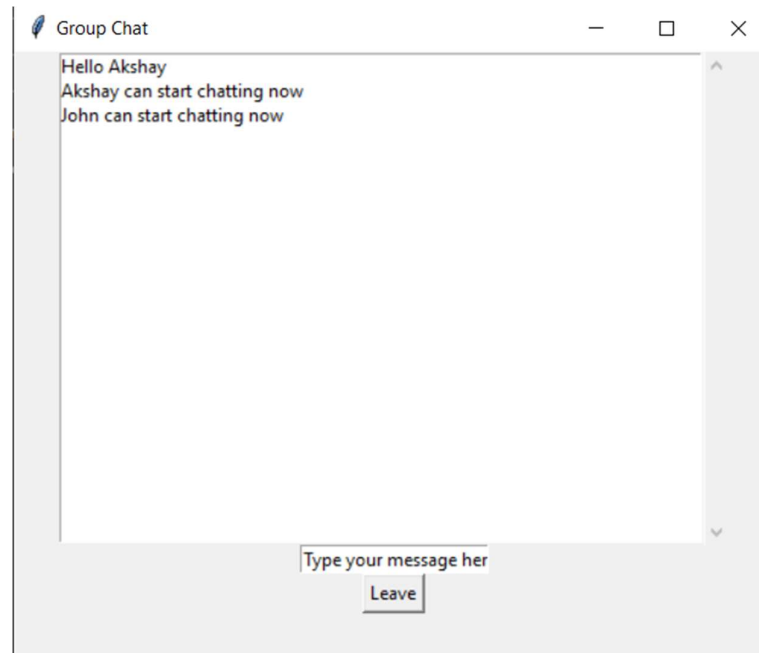
- Run the client.py again in new command prompt and verify the user 2:



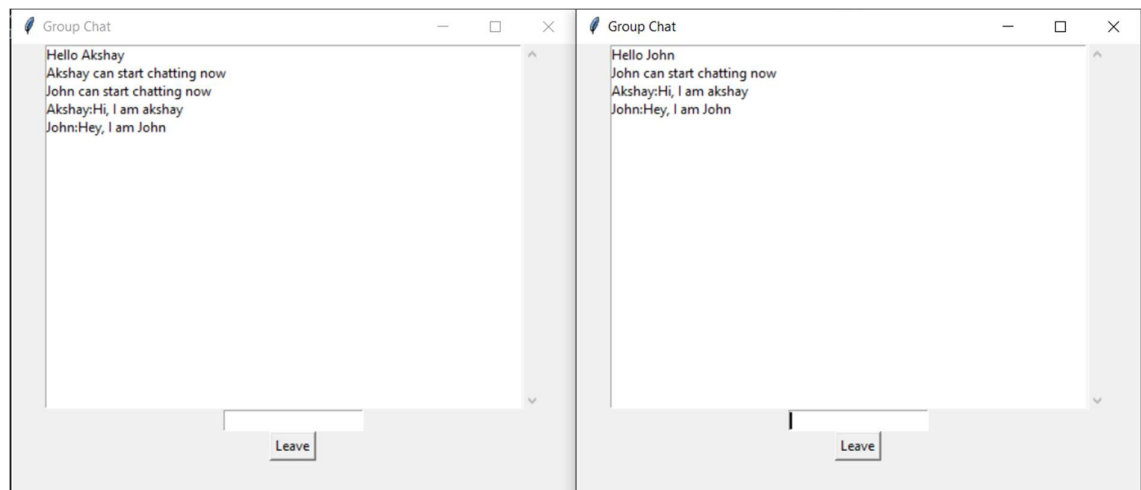
- When a user is verified a chat window is opened



- When a new user joins the chat, a notification is sent to all the users which are currently online



- Users can now chat with each other



- While user only uses this GUI to chat, there are log entries on server and client sides on the cmd
Server logs:

```
C:\Windows\System32\cmd.exe - py server.py
Microsoft Windows [Version 10.0.19043.1645]
(c) Microsoft Corporation. All rights reserved.

C:\Users\aksha\Desktop\drexel assignments\Final implementation>py server.py
Listening on port: 8080
('172.16.10.19', 56845) is connected
331:User checked and verified -> Akshay has been verified
('172.16.10.19', 56850) is connected
331:User checked and verified -> John has been verified
```

Client logs:

```
C:\Windows\System32\cmd.exe - py client.py
Microsoft Windows [Version 10.0.19043.1645]
(c) Microsoft Corporation. All rights reserved.

C:\Users\aksha\Desktop\drexel assignments\Final implementation>py client.py
Socket address is 172.16.10.19..56845
```