OS LAB MINI PROJECT
Group : 3
Project Name : File Sharing

Steps to be followed :

1) **Sign up :** After running the client side, first sign up to be registered user. To be mentioned after successfull sign up, please quit and run the client side again.

2) **Log in :** After running again the client side, you need to log in with your registered username and password.

3) Uploading to Server : After going to the desired directory we send the server a file. The metadata is also shown as the screenshot.

```
------------------------------------------------
 1. Change server directory
 2. Get file from server
 3. Send file to server
 4. quit


------------------------------------------------
3


------------------------------------------------
enter the command (like > put filename)
put cfprac.cpp
Data port started listening
File and metadata sent successfully.
```

4) Downloading from Server : For a file that exists in the server we can download it.

```
 1. Change server directory
 2. Get file from server
 3. Send file to server
 4. quit


------------------------------------------------
2


------------------------------------------------
enter the command (like > get filename)
get server.txt

 file exists and ready for transfer

Data port started listening
Receiving file: server.txt (13 bytes, timestamp: 1729448521)
File received successfully.
Received metadata: L
```

And the Server side over all looks like this :

```
anamitra@Anamitra:/mnt/c/Users/anami/downloads/FTP-SERVER-main/FTP-SERVER-main$ gcc ftpS.c
anamitra@Anamitra:/mnt/c/Users/anami/downloads/FTP-SERVER-main/FTP-SERVER-main$ ./a.out
Server listening...
Metadata received: Name:cfprac.cpp|Size:0|Time:1734068905|Type:binary

Filename: cfprac.cpp, Size: 0, Time: 1734068905
Sending metadata: Name:cfprac.cpp|Size:0|Time:1734068905|
Sending metadata: Name:server.txt|Size:13|Time:1729448521|
```