

# 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 successful sign up, please quit and run the client side again.

```
anamitra@Anamitra:/mnt/c/Users/anami/downloads/FTP-SERVER-main/FTP-SERVER-main$ gcc ftpC.c
anamitra@Anamitra:/mnt/c/Users/anami/downloads/FTP-SERVER-main/FTP-SERVER-main$ ./a.out
--Connected to Server successfully--

-----
1. Sign Up
2. Login
3. Quit
-----
Select option: 1
Sign Up
Enter username: anam
Enter password: 1234
User registered successfully♦

-----
1. Sign Up
2. Login
3. Quit
-----
Select option: 3
Quitting...
```

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

```
anamitra@Anamitra:/mnt/c/Users/anami/downloads/FTP-SERVER-main/FTP-SERVER-main$ ./a.out
--Connected to Server successfully--

-----
1. Sign Up
2. Login
3. Quit
-----
Select option: 2

Enter the login credentials

Enter username: anam
Enter password: 1234
Sending login data: login anam 1234
Received response: 200 OK
Login successful!

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

- 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|  
|
```