

Peer To Peer Manual

Run Server

1. Copy sever folder to linux or windows
2. Type "make" press enter -> it compiles and run server code

```
ubuntu@ip-172-31-46-19:~/PeerToPeer/Server$ make
javac *.java
java Server 45678
Server listening on port 45678
```

Or

3. for compile :- javac *.java
4. for Run :- java Server 45678 // port No. 45678

```
ubuntu@ip-172-31-46-19:~/PeerToPeer/Server$ javac *.java
ubuntu@ip-172-31-46-19:~/PeerToPeer/Server$ java Server 45678
Server listening on port 45678
```

- 5.

```
ubuntu@ip-172-31-46-19:~/Server$ make
javac *.java
java Server 45678
Server listening on port 45678
Host :- client1 IP:ip-172-31-46-19/172.31.46.19 Port:11111 Successfully Registered!
Host :- client2 IP:ip-172-31-46-19/172.31.46.19 Port:22222 Successfully Registered!
Host :- client3 IP:ip-172-31-46-19/172.31.46.19 Port:33333 Successfully Registered!
Host :- client3 IP:ip-172-31-46-19/172.31.46.19 Port:33333 All File cRequest
Host :- null IP:null Port:0 File cRequest :file1.txt
Name :-file1.txt
3
file5.txt
file11.txt
file1.txt
file15.txt
file3.txt
file4.txt
file14.txt
file2.txt
file13.txt
Host :- client2 IP:ip-172-31-46-19/172.31.46.19 Port:22222 updated Successfully
```

Run Client

1. copy All clients to different instance
2. In Client1/makefile enter Ip address of server
3. Type make press → it compiles and run client code

```
ubuntu@ip-172-31-46-19:~/Client3$ make
javac *.java
java Client 33333 client3 35.164.243.127 45678
Input Format : java Client <Client Port> <Client Name> <Server Ip> <Server port>

Client listening on 33333

1. Register
2. Get All file list
3. Lookup Files
4. Unregister
5. Exit
1
```

Without makefile

Compile :- javac *.java

Run :- java Client 11111 client1 35.164.243.127 45678

Input Format : java Client <Client Port> <Client Name> <Server Ip> <Server port>

5. To Register in client Press 1 all files registered

```
1. Register
2. Get All file list
3. Lookup Files
4. Unregister
5. Exit
1
***** Register *****
Send Object
File file3.txt
File file6.txt
File file10.txt
File file2.txt
File file9.txt
File file4.txt
File file1.txt
File file5.txt
File file8.txt
File file7.txt
Successfully Registered!
```

- 6.

7. To get list of all files from server press 2

```
1. Register
2. Get All file list
3. Lookup Files
4. Unregister
5. Exit
2
*****      Request All File      *****
List of all files :-
1. file5.txt
2. file17.txt
3. file12.txt
4. file15.txt
5. file3.txt
6. file19.txt
7. file2.txt
8. file7.txt
9. file20.txt
10. file13.txt
11. file9.txt
12. file11.txt
13. file1.txt
14. file6.txt
15. file16.txt
16. file4.txt
17. file18.txt
18. file14.txt
19. file8.txt
20. file10.txt
```

To Transfer file:-

Press 3 and enter file name

It displays all client list who have this file

And select client by entering corresponding number.

```
1. Register
2. Get All file list
3. Lookup Files
4. Unregister
5. Exit
3
*****      Lookup for file      *****

Enter File name
file1.txt
PeerList Received
All Peer List :-3
1. client1
2. client2
3. client3
Please Enter Client No. to connect and download file :-
1
sending request to peer
request sent
-----
Transfer Time in milliseconds: 5

Downloaded file :file1.txt File size : 10.93KB

Performance speed 1.91MB/sec
-----
```

8.