# OUTPUT  FILE
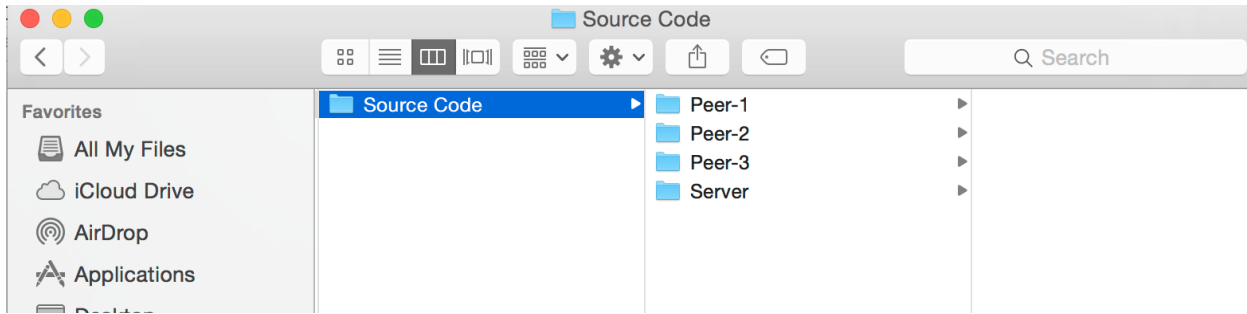
—>In this assignment,we are using 3 client and 1 server.Below is the basic setup for this.



—>When we start server, it look like.



—>when we run peer-1, its show message "Peer started" and 3 option.

—>when we select register all file option,it will register all file to server from local directory named 'Local'.

```
1 Register all file
2 Search a file
3 Exit

1
File .DS_Store is Do_registered!
File 1.txt is Do_registered!
File 10.txt is Do_registered!
File 11.txt is Do_registered!
File 2.txt is Do_registered!
File 3.txt is Do_registered!
File 333.txt is Do_registered!
File 4.txt is Do_registered!
File 5.txt is Do_registered!
File 7.txt is Do_registered!
File 8.txt is Do_registered!
File 9.txt is Do_registered!
File 99.txt is Do_registered!
```

—>When user register files on server,server terminal shows info about client ID,port etc..

```
register 192.168.1.71:9010 3.txt
File:3.txt from Client:192.168.1.71:9010 is registried!
hay...New connection accepted!
register 192.168.1.71:9010 333.txt
File:333.txt from Client:192.168.1.71:9010 is registried!
hay...New connection accepted!
register 192.168.1.71:9010 4.txt
hay...New connection accepted!
File:4.txt from Client:192.168.1.71:9010 is registried!
register 192.168.1.71:9010 5.txt
File:5.txt from Client:192.168.1.71:9010 is registried!
hay...New connection accepted!
register 192.168.1.71:9010 7.txt
File:7.txt from Client:192.168.1.71:9010 is registried!
hay...New connection accepted!
register 192.168.1.71:9010 8.txt
File:8.txt from Client:192.168.1.71:9010 is registried!
hay...New connection accepted!
register 192.168.1.71:9010 9.txt
hay...New connection accepted!
File:9.txt from Client:192.168.1.71:9010 is registried!
```

—>If user select search option then it ask for file name and search from index server and shown as below.

```
1 Register all file
2 Search a file
3 Exit
2
Enter the file name:
4.txt
4.txt is found on 192.168.1.71:9110:Look
```

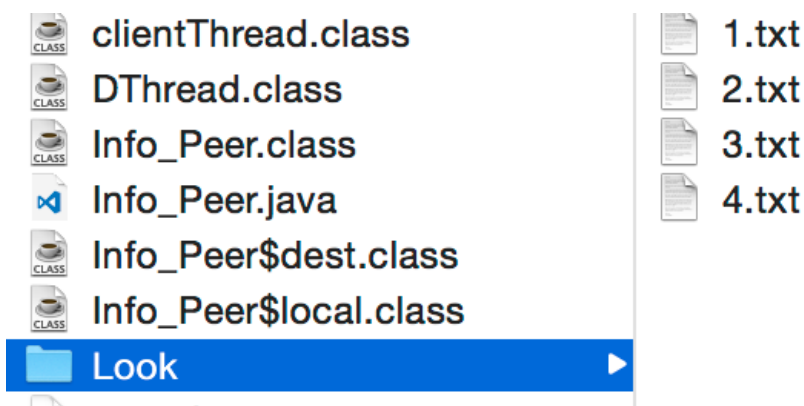—>when a peer download file it display this.Here we downloading 4.txt file.

```
1 Register all file
2 Search a file
3 Exit

Start receiving...
display file 4.txt
Finish receive:./Look/4.txt
```
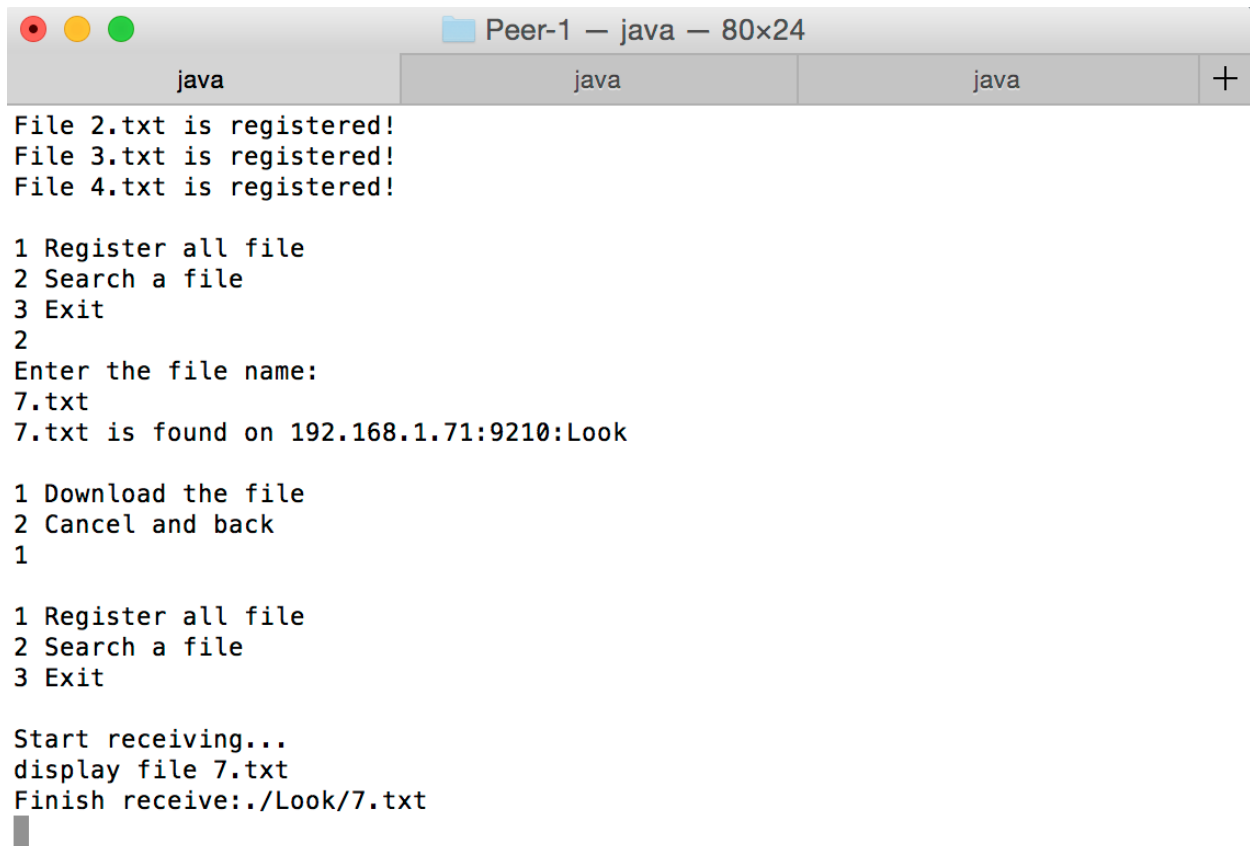
—>From peer where file is downloaded,that peer screen is as below.

```
1 Register all file
2 Search a file
3 Exit
Sent:100.0%
Success
```

—>User can find downloaded file in 'Look' folder.

| | |
|---|---|
| clientThread.class | 1.txt |
| DThread.class | 2.txt |
| Info_Peer.class | 3.txt |
| Info_Peer.java | 4.txt |
| Info_Peer$dest.class | |
| Info_Peer$local.class | |
| Look ▶ | |

## CONCURRENCY CHECK

—> If peer-1 and peer-2 try to download file from peer-3 at a time then screen of peer-1 and peer-2 is as below.

```
●  ●  ●              📁 Peer-1 — java — 80×24

        java              |        java        |        java        | +
File 2.txt is registered!
File 3.txt is registered!
File 4.txt is registered!

1 Register all file
2 Search a file
3 Exit
2
Enter the file name:
7.txt
7.txt is found on 192.168.1.71:9210:Look

1 Download the file
2 Cancel and back
1

1 Register all file
2 Search a file
3 Exit

Start receiving...
display file 7.txt
Finish receive:./Look/7.txt
▎
```

```
●  ●  ●                   📁 Peer-2 — java — 80×24
    java              ●       java                    java              +
File .DS_Store is registered!
File 2.txt is registered!
File 4.txt is registered!

1 Register all file
2 Search a file
3 Exit
2
Enter the file name:
7.txt
7.txt is found on 192.168.1.71:9210:share

1 Download the file
2 Cancel and back
1

1 Register all file
2 Search a file
3 Exit

Start receiving...
display file 7.txt
Finish receive:./share/7.txt
```
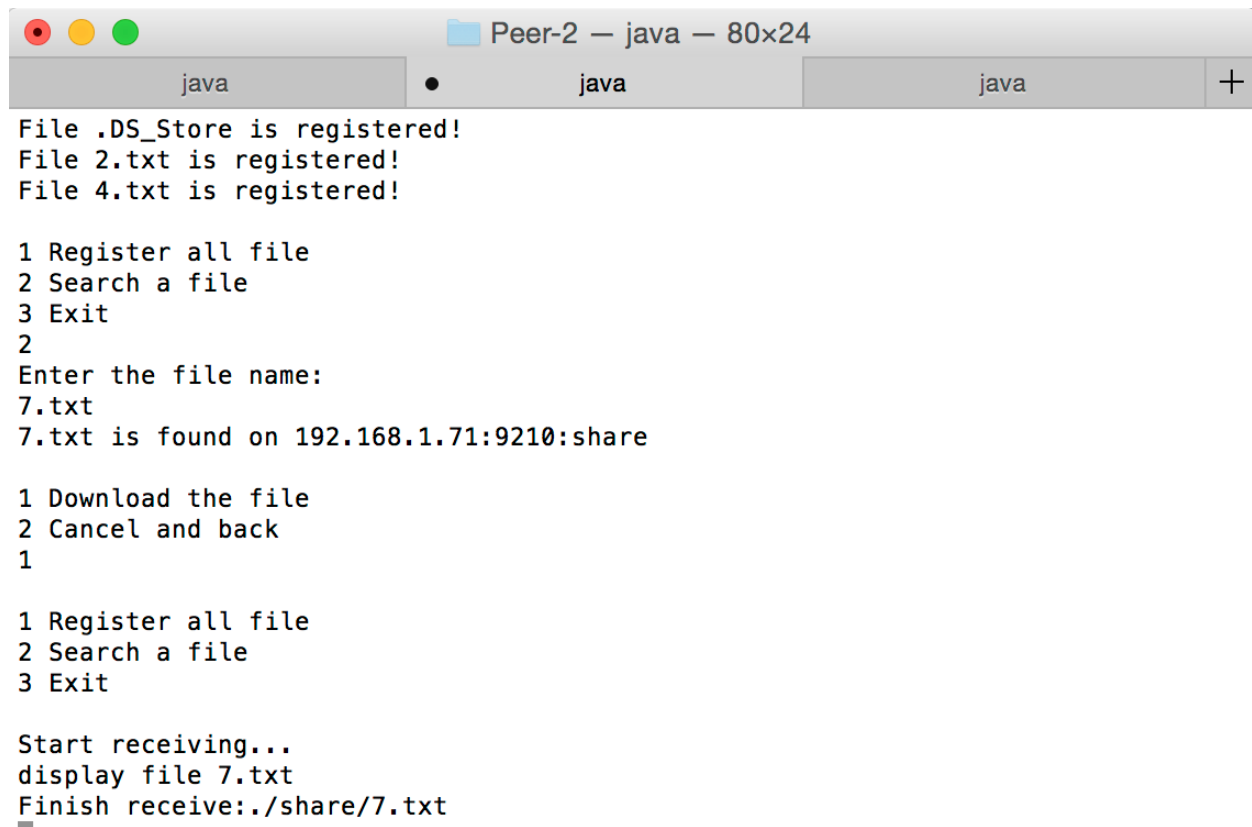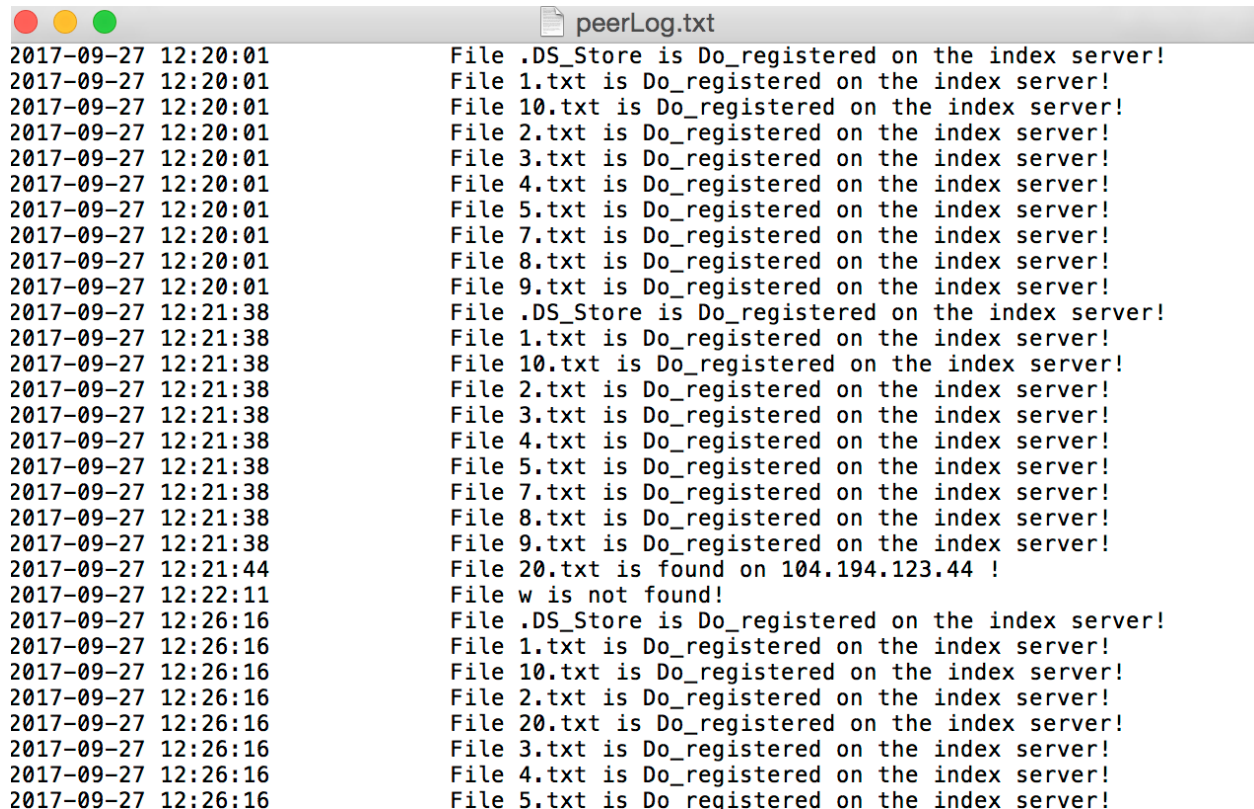
—>This screenshot shows a peer-3 terminal from where download happens.

```
1 Register all file
2 Search a file
3 Exit
1
File .DS_Store is registered!
File 1.txt is registered!
File 3.txt is registered!
File 7.txt is registered!

1 Register all file
2 Search a file
3 Exit
Sent:100.0%
Success
Sent:100.0%
Success
```
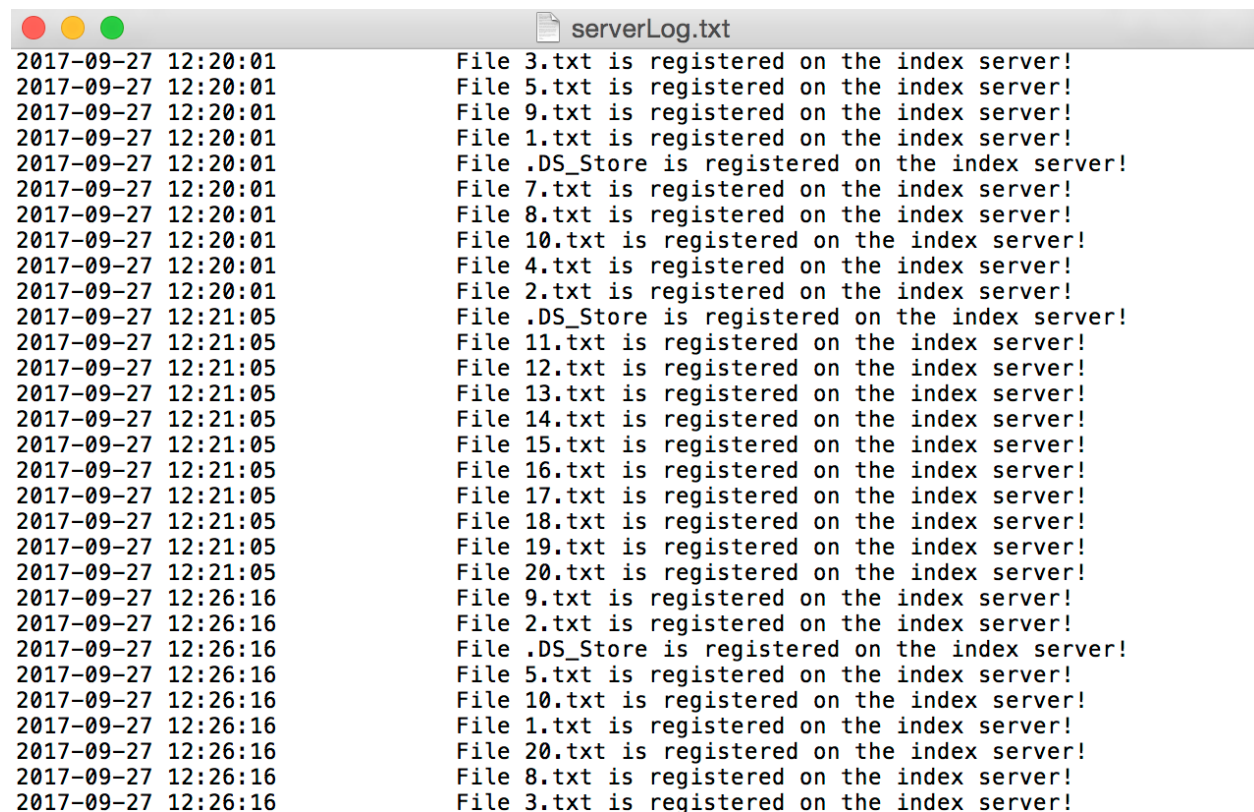
—> Example of how peerLog and serverLog file looks.

```
●  ●  ●                          📄 peerLog.txt
2017-09-27 12:20:01              File .DS_Store is Do_registered on the index server!
2017-09-27 12:20:01              File 1.txt is Do_registered on the index server!
2017-09-27 12:20:01              File 10.txt is Do_registered on the index server!
2017-09-27 12:20:01              File 2.txt is Do_registered on the index server!
2017-09-27 12:20:01              File 3.txt is Do_registered on the index server!
2017-09-27 12:20:01              File 4.txt is Do_registered on the index server!
2017-09-27 12:20:01              File 5.txt is Do_registered on the index server!
2017-09-27 12:20:01              File 7.txt is Do_registered on the index server!
2017-09-27 12:20:01              File 8.txt is Do_registered on the index server!
2017-09-27 12:20:01              File 9.txt is Do_registered on the index server!
2017-09-27 12:21:38              File .DS_Store is Do_registered on the index server!
2017-09-27 12:21:38              File 1.txt is Do_registered on the index server!
2017-09-27 12:21:38              File 10.txt is Do_registered on the index server!
2017-09-27 12:21:38              File 2.txt is Do_registered on the index server!
2017-09-27 12:21:38              File 3.txt is Do_registered on the index server!
2017-09-27 12:21:38              File 4.txt is Do_registered on the index server!
2017-09-27 12:21:38              File 5.txt is Do_registered on the index server!
2017-09-27 12:21:38              File 7.txt is Do_registered on the index server!
2017-09-27 12:21:38              File 8.txt is Do_registered on the index server!
2017-09-27 12:21:38              File 9.txt is Do_registered on the index server!
2017-09-27 12:21:44              File 20.txt is found on 104.194.123.44 !
2017-09-27 12:22:11              File w is not found!
2017-09-27 12:26:16              File .DS_Store is Do_registered on the index server!
2017-09-27 12:26:16              File 1.txt is Do_registered on the index server!
2017-09-27 12:26:16              File 10.txt is Do_registered on the index server!
2017-09-27 12:26:16              File 2.txt is Do_registered on the index server!
2017-09-27 12:26:16              File 20.txt is Do_registered on the index server!
2017-09-27 12:26:16              File 3.txt is Do_registered on the index server!
2017-09-27 12:26:16              File 4.txt is Do_registered on the index server!
2017-09-27 12:26:16              File 5.txt is Do_registered on the index server!
```

```
●  ●  ●                          📄 serverLog.txt
2017-09-27 12:20:01              File 3.txt is registered on the index server!
2017-09-27 12:20:01              File 5.txt is registered on the index server!
2017-09-27 12:20:01              File 9.txt is registered on the index server!
2017-09-27 12:20:01              File 1.txt is registered on the index server!
2017-09-27 12:20:01              File .DS_Store is registered on the index server!
2017-09-27 12:20:01              File 7.txt is registered on the index server!
2017-09-27 12:20:01              File 8.txt is registered on the index server!
2017-09-27 12:20:01              File 10.txt is registered on the index server!
2017-09-27 12:20:01              File 4.txt is registered on the index server!
2017-09-27 12:20:01              File 2.txt is registered on the index server!
2017-09-27 12:21:05              File .DS_Store is registered on the index server!
2017-09-27 12:21:05              File 11.txt is registered on the index server!
2017-09-27 12:21:05              File 12.txt is registered on the index server!
2017-09-27 12:21:05              File 13.txt is registered on the index server!
2017-09-27 12:21:05              File 14.txt is registered on the index server!
2017-09-27 12:21:05              File 15.txt is registered on the index server!
2017-09-27 12:21:05              File 16.txt is registered on the index server!
2017-09-27 12:21:05              File 17.txt is registered on the index server!
2017-09-27 12:21:05              File 18.txt is registered on the index server!
2017-09-27 12:21:05              File 19.txt is registered on the index server!
2017-09-27 12:21:05              File 20.txt is registered on the index server!
2017-09-27 12:26:16              File 9.txt is registered on the index server!
2017-09-27 12:26:16              File 2.txt is registered on the index server!
2017-09-27 12:26:16              File .DS_Store is registered on the index server!
2017-09-27 12:26:16              File 5.txt is registered on the index server!
2017-09-27 12:26:16              File 10.txt is registered on the index server!
2017-09-27 12:26:16              File 1.txt is registered on the index server!
2017-09-27 12:26:16              File 20.txt is registered on the index server!
2017-09-27 12:26:16              File 8.txt is registered on the index server!
2017-09-27 12:26:16              File 3.txt is registered on the index server!
```