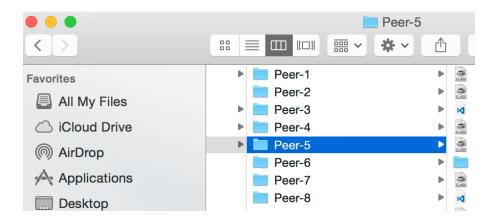
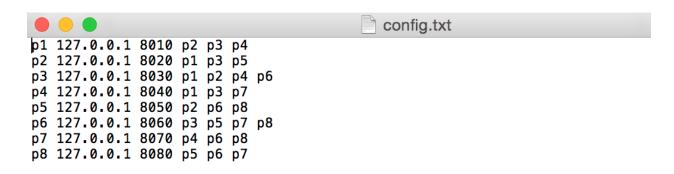
OUTPUT FILE

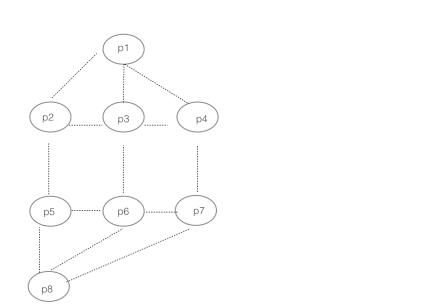
1)In this assignment, we are using 8 Peers and 8 Servers. Below is the basic setup for this. Server code is inside of Peer code.



->config.txt file is set up for all peer as a common. Every Peer will read their neighbor Peer information from here.



-Peer Structure



2)Set up pear name

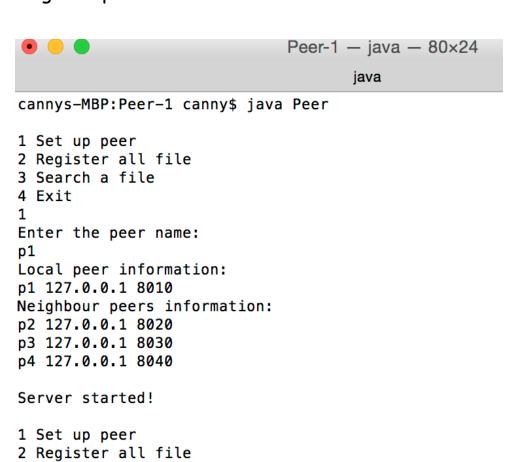


```
1 Set up peer
2 Register all file
3 Search a file
4 Exit
```

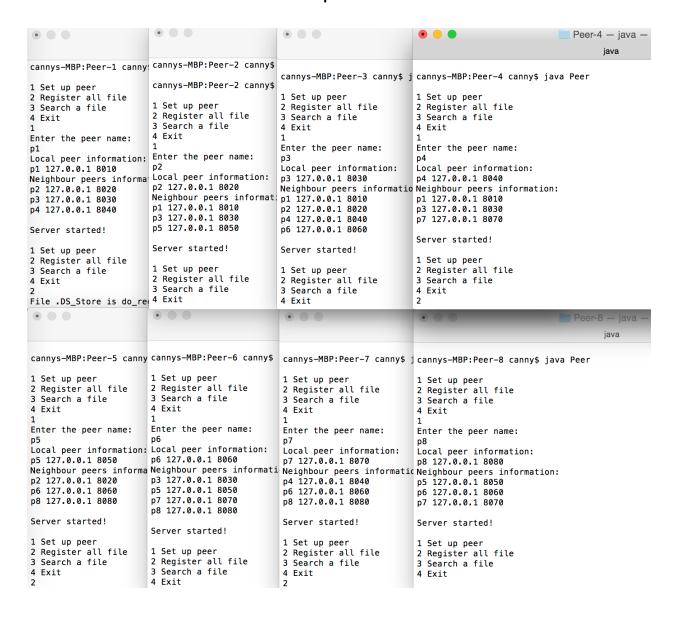
3 Search a file

4 Exit

->select option 1 to give peer a name(P1,p2,p3...p8), after entering name, server will automatically start and show the neighbor peers information.



-> All the Peers must be set up names.



3) Register Function

Now we will see register file function.

press 2 to register all file from folder.

```
1 Set up peer
2 Register all file
3 Search a file
4 Exit
2
File .DS_Store is do_registered !
File 1.txt is do_registered !
File 13.txt is do_registered !
File 19.txt is do_registered !
File 2.txt is do_registered !
File 3.txt is do_registered !
File 44.txt is do_registered !
```

4) Search

->we will search file which is on peer-3 from peer-1.

```
1 Set up peer
2 Register all file
3 Search a file
4 Exit
3
Enter the file name:
22.txt
Start processing...
22.txt found on peers!
1 Download the file
2 Cancel and back
```

-> Press 1 for download that file from source peer.

```
Peer-1 — java — 80×24
java
Enter the file name:
22.txt
Start processing...
22.txt found on peers!
1 Download the file
2 Cancel and back
The destination peer list is:
1:127.0.0.1 8030
Chose which peer to download the file:
1 Set up peer
2 Register all file
3 Search a file
4 Exit
Start receiving...
display file 22.txt
Finish receive:./Look/22.txt
```

5)Concurrency

->when we try to download file to two different peer from common peer.

Common peer terminal.

```
1 Set up peer
2 Register all file
3 Search a file
4 Exit
22.txt is on p3
22.txt is on p3
22.txt is on p3
Sent:100.0%
Success
21.txt is on p3
21.txt is on p3
21.txt is on p3
21.txt is on p3
Sent:100.0%
Success
```

->Common peer log file is shown below.

```
peerLog.txt
2017-10-28 16:32:03
                                          Receive: hitQuery 24 21.txt p6
                                          Send:hitQuery 10 21.txt p3
2017-10-28 16:32:03
                                         Receive: hitQuery 23 21.txt p6
Send:hitQuery 10 21.txt p3
Send:hitQuery 8 21.txt p3
2017-10-28 16:32:03
2017-10-28 16:32:03
2017-10-28 16:32:03
2017-10-28 16:32:03
                                         Receive: hitQuery 19 21.txt p2
2017-10-28 16:32:03
                                         Receive: hitQuery 24 21.txt p6
                                         Receive: hitQuery 22 21.txt p2
Send:hitQuery 10 21.txt p3
Send:hitQuery 8 21.txt p3
Send:hitQuery 10 21.txt p3
2017-10-28 16:32:03
2017-10-28 16:32:03
2017-10-28 16:32:03
2017-10-28 16:32:03
                                         Receive: hitQuery 21 21.txt p1
Send:hitQuery 10 21.txt p3
2017-10-28 16:32:03
2017-10-28 16:32:03
                                         Receive: hitQuery 22 21.txt p2
Send:hitQuery 10 21.txt p3
2017-10-28 16:32:03
2017-10-28 16:32:03
                                         Receive: hitQuery 22 21.txt p2
Send:hitQuery 10 21.txt p3
2017-10-28 16:32:03
2017-10-28 16:32:03
                                         Receive: hitQuery 24 21.txt p6
Send:hitQuery 10 21.txt p3
2017-10-28 16:32:03
2017-10-28 16:32:03
2017-10-28 16:32:03
                                         Receive: hitQuery 24 21.txt p6
2017-10-28 16:32:03
                                         Send:hitQuery 10 21.txt p3
                                         Receive: query 10 21.txt p6
File 21.txt is found on p3
Send:hitQuery 10 21.txt p3
2017-10-28 16:32:03
2017-10-28 16:32:03
2017-10-28 16:32:03
2017-10-28 16:32:04
                                         Receive: hitQuery 20 21 txt p4
                                         Send:hitQuery 8 21.txt p3
2017-10-28 16:32:04
                                         Receive: hitQuery 21 21.txt p1
Send:hitQuery 10 21.txt p3
2017-10-28 16:32:04
2017-10-28 16:32:04
2017-10-28 16:32:10
                                         Send 21.txtsuccessfully!
```