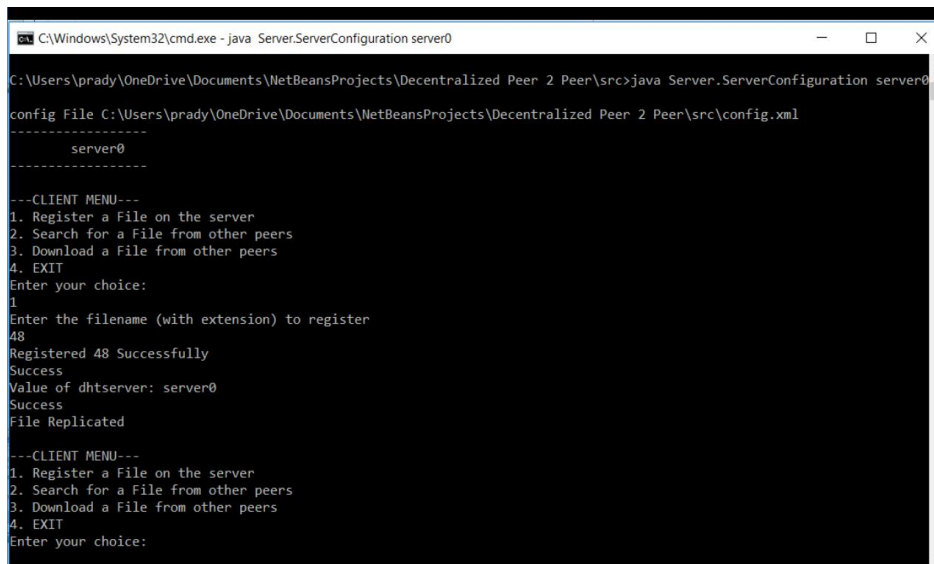


Decentralize Peer to Peer File Sharing System
CS550- Advanced Operating System
Pradyot Mayank (A20405826)

1. Open command prompt and follow the user manual and run batch file one by one. Or you can connect the servers manually by following the instruction in manual. All servers will be connected and running.

Server 0



```
C:\Windows\System32\cmd.exe - java Server.ServerConfiguration server0

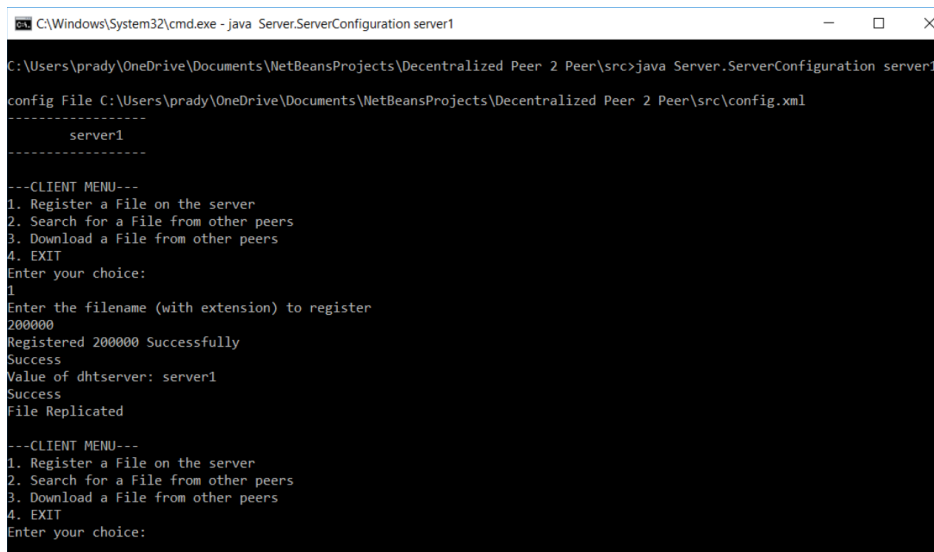
C:\Users\prady\OneDrive\Documents\NetBeansProjects\Decentralized Peer 2 Peer\src>java Server.ServerConfiguration server0

config File C:\Users\prady\OneDrive\Documents\NetBeansProjects\Decentralized Peer 2 Peer\src\config.xml
-----
server0
-----

---CLIENT MENU---
1. Register a File on the server
2. Search for a File from other peers
3. Download a File from other peers
4. EXIT
Enter your choice:
1
Enter the filename (with extension) to register
48
Registered 48 Successfully
Success
Value of dhtserver: server0
Success
File Replicated

---CLIENT MENU---
1. Register a File on the server
2. Search for a File from other peers
3. Download a File from other peers
4. EXIT
Enter your choice:
```

Server 1



```
C:\Windows\System32\cmd.exe - java Server.ServerConfiguration server1

C:\Users\prady\OneDrive\Documents\NetBeansProjects\Decentralized Peer 2 Peer\src>java Server.ServerConfiguration server1

config File C:\Users\prady\OneDrive\Documents\NetBeansProjects\Decentralized Peer 2 Peer\src\config.xml
-----
server1
-----

---CLIENT MENU---
1. Register a File on the server
2. Search for a File from other peers
3. Download a File from other peers
4. EXIT
Enter your choice:
1
Enter the filename (with extension) to register
200000
Registered 200000 Successfully
Success
Value of dhtserver: server1
Success
File Replicated

---CLIENT MENU---
1. Register a File on the server
2. Search for a File from other peers
3. Download a File from other peers
4. EXIT
Enter your choice:
```

Server 2

```
C:\Windows\System32\cmd.exe - java Server.ServerConfiguration server2

C:\Users\prady\OneDrive\Documents\NetBeansProjects\Decentralized Peer 2 Peer\src>java Server.ServerConfiguration server2

config File C:\Users\prady\OneDrive\Documents\NetBeansProjects\Decentralized Peer 2 Peer\src\config.xml
-----
server2
-----

---CLIENT MENU---
1. Register a File on the server
2. Search for a File from other peers
3. Download a File from other peers
4. EXIT
Enter your choice:
1
Enter the filename (with extension) to register
93
Registered 93 Successfully
Success
Value of dhtserver: server2
Success
File Replicated

---CLIENT MENU---
1. Register a File on the server
2. Search for a File from other peers
3. Download a File from other peers
4. EXIT
Enter your choice:
```

Server 3

```
C:\Windows\System32\cmd.exe - java Server.ServerConfiguration server3

C:\Users\prady\OneDrive\Documents\NetBeansProjects\Decentralized Peer 2 Peer\src>java Server.ServerConfiguration server3

config File C:\Users\prady\OneDrive\Documents\NetBeansProjects\Decentralized Peer 2 Peer\src\config.xml
-----
server3
-----

---CLIENT MENU---
1. Register a File on the server
2. Search for a File from other peers
3. Download a File from other peers
4. EXIT
Enter your choice:
1
Enter the filename (with extension) to register
34
Registered 34 Successfully
Success
Value of dhtserver: server3
Success
File Replicated

---CLIENT MENU---
1. Register a File on the server
2. Search for a File from other peers
3. Download a File from other peers
4. EXIT
Enter your choice:
```

Server 4

```
C:\Windows\System32\cmd.exe - java Server.ServerConfiguration server4

C:\Users\prady\OneDrive\Documents\NetBeansProjects\Decentralized Peer 2 Peer\src>java Server.ServerConfiguration server4

config File C:\Users\prady\OneDrive\Documents\NetBeansProjects\Decentralized Peer 2 Peer\src\config.xml

-----
server4
-----

---CLIENT MENU---
1. Register a File on the server
2. Search for a File from other peers
3. Download a File from other peers
4. EXIT
Enter your choice:
1
Enter the filename (with extension) to register
6
Registered 6 Successfully
Success
Value of dhtserver: server4
Success
File Replicated

---CLIENT MENU---
1. Register a File on the server
2. Search for a File from other peers
3. Download a File from other peers
4. EXIT
Enter your choice:
```

Server 5

```
C:\Windows\System32\cmd.exe - java Server.ServerConfiguration server5

C:\Users\prady\OneDrive\Documents\NetBeansProjects\Decentralized Peer 2 Peer\src>java Server.ServerConfiguration server5

config File C:\Users\prady\OneDrive\Documents\NetBeansProjects\Decentralized Peer 2 Peer\src\config.xml

-----
server5
-----

---CLIENT MENU---
1. Register a File on the server
2. Search for a File from other peers
3. Download a File from other peers
4. EXIT
Enter your choice:
1
Enter the filename (with extension) to register
600000
Registered 600000 Successfully
Success
Value of dhtserver: server5
Success
File Replicated

---CLIENT MENU---
1. Register a File on the server
2. Search for a File from other peers
3. Download a File from other peers
4. EXIT
Enter your choice:
```

Server 6

```
C:\Windows\System32\cmd.exe - java Server.ServerConfiguration server6

C:\Users\prady\OneDrive\Documents\NetBeansProjects\Decentralized Peer 2 Peer\src>java Server.ServerConfiguration server6

config File C:\Users\prady\OneDrive\Documents\NetBeansProjects\Decentralized Peer 2 Peer\src\config.xml
-----
server6
-----

---CLIENT MENU---
1. Register a File on the server
2. Search for a File from other peers
3. Download a File from other peers
4. EXIT
Enter your choice:
1
Enter the filename (with extension) to register
700000
Registered 700000 Successfully
Success
Value of dhtserver: server6
Success
File Replicated

---CLIENT MENU---
1. Register a File on the server
2. Search for a File from other peers
3. Download a File from other peers
4. EXIT
Enter your choice:
```

peer6

File Home Share View

← → ↶ ↷ ⬅ ➡ ⬆ ⬇ ⬅ ➡ ⬆ ⬇

⬅ ➡ ⬆ ⬇ This PC > Documents > NetBeansProjects > Decentralized Peer 2 Peer > p2pSharedFolder > peer6

<input type="checkbox"/>	Name	Date modified	Type	Size
<input type="checkbox"/>	200001.bin	2/3/2016 3:49 PM	VLC media file (.bin)	10 KB
<input checked="" type="checkbox"/>	700000	11/6/2017 2:45 PM	File	10 KB
<input type="checkbox"/>	700001	11/6/2017 2:45 PM	File	10 KB
<input type="checkbox"/>	700002	11/6/2017 2:45 PM	File	10 KB
<input type="checkbox"/>	700003	11/6/2017 2:45 PM	File	10 KB
<input type="checkbox"/>	700004	11/6/2017 2:45 PM	File	10 KB
<input type="checkbox"/>	700005	11/6/2017 2:45 PM	File	10 KB
<input type="checkbox"/>	700006	11/6/2017 2:45 PM	File	10 KB
<input type="checkbox"/>	700007	11/6/2017 2:45 PM	File	10 KB
<input type="checkbox"/>	700008	11/6/2017 2:45 PM	File	10 KB
<input type="checkbox"/>	700009	11/6/2017 2:45 PM	File	10 KB
<input type="checkbox"/>	700010	11/6/2017 2:45 PM	File	10 KB
<input type="checkbox"/>	700011	11/6/2017 2:45 PM	File	10 KB
<input type="checkbox"/>	700012	11/6/2017 2:45 PM	File	10 KB
<input type="checkbox"/>	700013	11/6/2017 2:45 PM	File	10 KB
<input type="checkbox"/>	700014	11/6/2017 2:45 PM	File	10 KB
<input type="checkbox"/>	700015	11/6/2017 2:45 PM	File	10 KB
<input type="checkbox"/>	700016	11/6/2017 2:45 PM	File	10 KB
<input type="checkbox"/>	700017	11/6/2017 2:45 PM	File	10 KB

Server 7

```
C:\Windows\System32\cmd.exe - java Server.ServerConfiguration server7

C:\Users\prady\OneDrive\Documents\NetBeansProjects\Decentralized Peer 2 Peer\src>java Server.ServerConfiguration server7

config File C:\Users\prady\OneDrive\Documents\NetBeansProjects\Decentralized Peer 2 Peer\src\config.xml

-----
server7
-----

---CLIENT MENU---
1. Register a File on the server
2. Search for a File from other peers
3. Download a File from other peers
4. EXIT
Enter your choice:
1
Enter the filename (with extension) to register
45
Registered 45 Successfully
Success
Value of dhtserver: server7
Success
File Replicated

---CLIENT MENU---
1. Register a File on the server
2. Search for a File from other peers
3. Download a File from other peers
4. EXIT
Enter your choice:
```

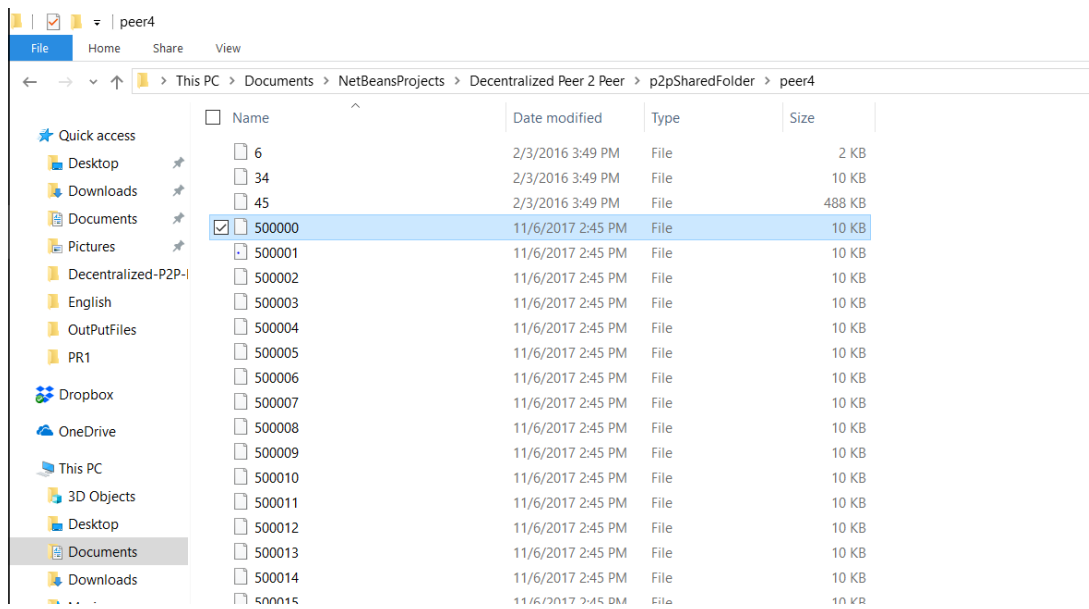
2. As soon as all the servers are registered the servers will behave as peers as well as server for all the other clients.
3. To register a file hit 1 and follow the instruction. Now all the other servers/peers will be able to find that file and search for it.
4. To search a file, enter the choice 2 from the menu and follow the instruction.

```
C:\Windows\System32\cmd.exe - java Server.ServerConfiguration Server4

---CLIENT MENU---
1. Register a File on the server
2. Search for a File from other peers
3. Download a File from other peers
4. EXIT
Enter your choice:
2
Enter the File Name to be searched:
700000
null

---CLIENT MENU---
1. Register a File on the server
2. Search for a File from other peers
3. Download a File from other peers
4. EXIT
Enter your choice:
500000

---CLIENT MENU---
1. Register a File on the server
2. Search for a File from other peers
3. Download a File from other peers
4. EXIT
Enter your choice:
2
Enter the File Name to be searched:
500000
[Server4, server7]
```



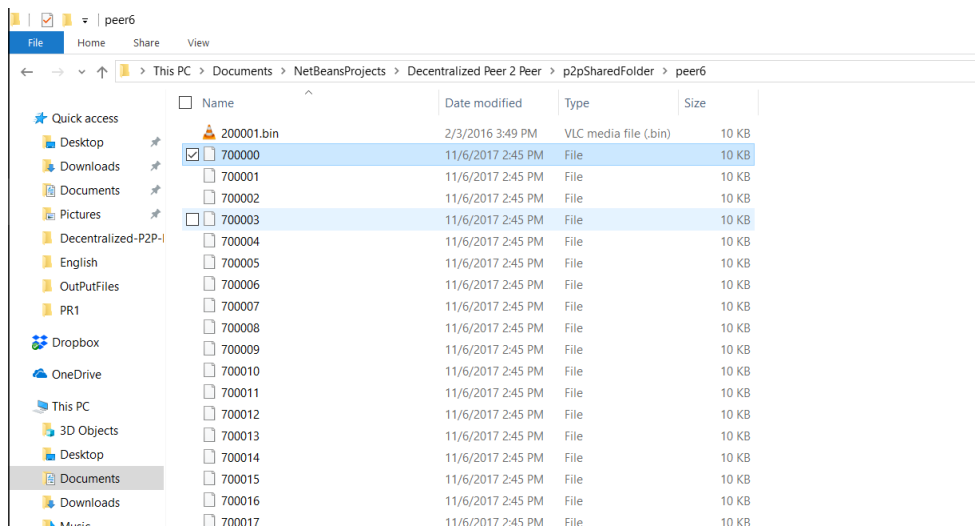
```

C:\Windows\System32\cmd.exe - java Server.ServerConfiguration server6
3. Download a File from other peers
4. EXIT
Enter your choice:
1
Enter the filename (with extension) to register
700000
Registered 700000 Successfully
Success
Value of dhtserver: server6
Success
File Replicated

---CLIENT MENU---
1. Register a File on the server
2. Search for a File from other peers
3. Download a File from other peers
4. EXIT
Enter your choice:
2
Enter the File Name to be searched:
700000
[server6, server7]

---CLIENT MENU---
1. Register a File on the server
2. Search for a File from other peers
3. Download a File from other peers
4. EXIT
Enter your choice:

```



- To download a file select 3 and enter the file name with extension you want to download. Enter the peer name from which you want to download the file.

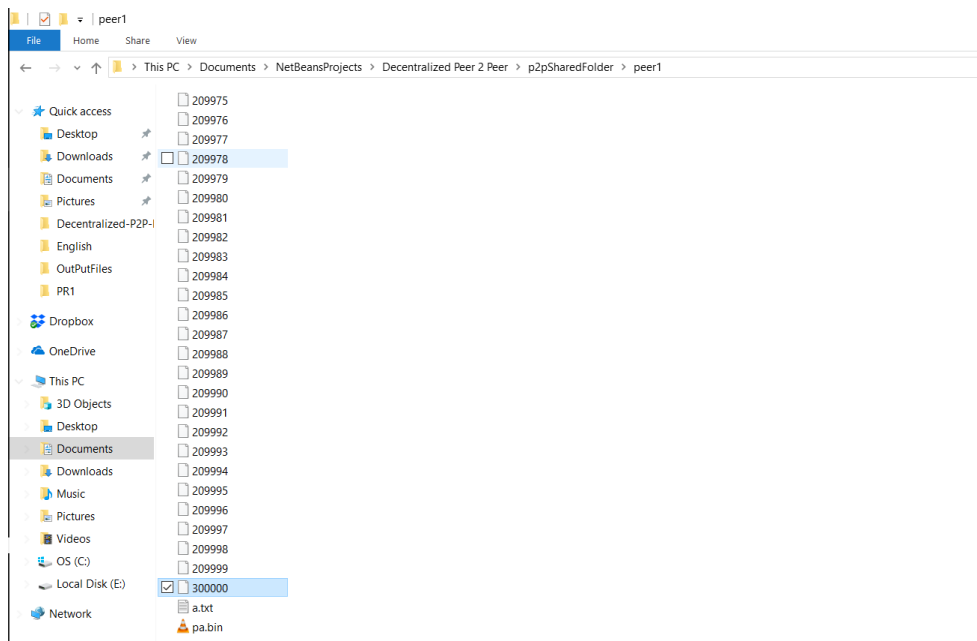
Example: Peer1 is downloading from server2

```

C:\Windows\System32\cmd.exe - java Server.ServerConfiguration server1
C:\Users\prady\OneDrive\Documents\NetBeansProjects\Decentralized Peer 2 Peer\src>javac *.java
C:\Users\prady\OneDrive\Documents\NetBeansProjects\Decentralized Peer 2 Peer\src>java Server.ServerConfiguration server1
C:\Users\prady\OneDrive\Documents\NetBeansProjects\Decentralized Peer 2 Peer\src>cd..
C:\Users\prady\OneDrive\Documents\NetBeansProjects\Decentralized Peer 2 Peer\src>java Server.ServerConfiguration server1
config File C:\Users\prady\OneDrive\Documents\NetBeansProjects\Decentralized Peer 2 Peer\src\config.xml
-----
server1
-----
---CLIENT MENU---
1. Register a File on the server
2. Search for a File from other peers
3. Download a File from other peers
4. EXIT
Enter your choice:
3
Enter the Filename:
300000
From where you wish to obtain 300000 :
server2
Downloading File Please wait ...
File Downloaded
Average Response time 4.852 ms

C:\Windows\System32\cmd.exe - java Server.ServerConfiguration Server2
C:\Users\prady\OneDrive\Documents\NetBeansProjects\Decentralized Peer 2 Peer\src>java Server.ServerConfiguration Server2
config File C:\Users\prady\OneDrive\Documents\NetBeansProjects\Decentralized Peer 2 Peer\src\config.xml
-----
Server2
-----
---CLIENT MENU---
1. Register a File on the server
2. Search for a File from other peers
3. Download a File from other peers
4. EXIT
Enter your choice:
1
Enter the filename (with extension) to register
300000
Registered 300000 Successfully
Success
Value of dhtserver: Server2
Success
File Replicated
---CLIENT MENU---
1. Register a File on the server
2. Search for a File from other peers
3. Download a File from other peers
4. EXIT
Enter your choice:

```



Example: Peer2 is downloading file from server 4

```

C:\Windows\System32\cmd.exe - java Server.ServerConfiguration server2
C:\Users\prady\OneDrive\Documents\NetBeansProjects\Decentralized Peer 2 Peer\src>javac *.java
C:\Users\prady\OneDrive\Documents\NetBeansProjects\Decentralized Peer 2 Peer\src>cd..
C:\Users\prady\OneDrive\Documents\NetBeansProjects\Decentralized Peer 2 Peer\src>java Server.ServerConfiguration server2
config File C:\Users\prady\OneDrive\Documents\NetBeansProjects\Decentralized Peer 2 Peer\src\config.xml
-----
server2
---CLIENT MENU---
1. Register a File on the server
2. Search for a File from other peers
3. Download a File from other peers
4. EXIT
Enter your choice:
3
Enter the Filename:
500000
From where you wish to obtain 500000 :
Server4
Downloading File Please wait ...
File Downloaded
Average Response time 3.528 ms

C:\Windows\System32\cmd.exe - java Server.ServerConfiguration Server4
config File C:\Users\prady\OneDrive\Documents\NetBeansProjects\Decentralized Peer 2 Peer\src\config.xml
-----
Server4
---CLIENT MENU---
1. Register a File on the server
2. Search for a File from other peers
3. Download a File from other peers
4. EXIT
Enter your choice:
1
Enter the filename (with extension) to register
500000
Registered 500000 Successfully
Success
Value of dhtserver: Server4
Success
File Replicated
---CLIENT MENU---
1. Register a File on the server
2. Search for a File from other peers
3. Download a File from other peers
4. EXIT
Enter your choice:

```

Example: Peer 5 is downloading file form server 6


```
C:\Windows\System32\cmd.exe - java Server.ServerConfiguration server5
C:\Users\prady\OneDrive\Documents\NetBeansProjects\Decentralized Peer 2 Peer\src>
server>javac *.java
C:\Users\prady\OneDrive\Documents\NetBeansProjects\Decentralized Peer 2 Peer\src>
server>cd..
C:\Users\prady\OneDrive\Documents\NetBeansProjects\Decentralized Peer 2 Peer\src>
java Server.ServerConfiguration server5
config File C:\Users\prady\OneDrive\Documents\NetBeansProjects\Decentralized Peer
2 Peer\src\config.xml
-----
server5
-----
---CLIENT MENU---
1. Register a File on the server
2. Search for a File from other peers
3. Download a File from other peers
4. EXIT
Enter your choice:
3
Enter the Filename:
70000
From where you wish to obtain 70000 :
Server6
Downloading File Please wait ...
File Downloaded
Average Response time 5.691 ms

C:\Windows\System32\cmd.exe - java Server.ServerConfiguration Server6
Drive\Documents\NetBeansProjects\Decentralized Peer 2 Peer\src>java Server.ServerConf
figuration Server6
config File C:\Users\prady\OneDrive\Documents\NetBeansProjects\Decentralized Peer 2 P
eer\src\config.xml
-----
Server6
-----
---CLIENT MENU---
1. Register a File on the server
2. Search for a File from other peers
3. Download a File from other peers
4. EXIT
Enter your choice:
1
Enter the filename (with extension) to register
700000
Registered 700000 Successfully
Success
Value of dhtserver: Server6
Success
File Replicated
---CLIENT MENU---
1. Register a File on the server
2. Search for a File from other peers
3. Download a File from other peers
4. EXIT
Enter your choice:
```

