


**Advanced Operating Systems**  
**Programming Project 3- Output ScreenShots**

**Name: Manisha Nalla**

**R11471258**

---

## 1. Indexing Server


 disci.hpcc.ttu.edu - PuTTY

```
login as: manalla
manalla@disci.hpcc.ttu.edu's password:
Last login: Fri Mar 31 18:17:49 2017 from 192.58.125.4
Use of Texas Tech computers and networks requires prior authorization.
Your use of these systems may be monitored by automated and/or manual
security testing procedures. Unauthorized use of these systems is
prohibited and abuse is subject to immediate termination of the account
or service and University disciplinary procedure and/or criminal
prosecution.

If you have questions concerning this notification screen, please
contact IT Help Central at 742-HELP (4357).
-bash-4.1$ cd pkgfinal/
-bash-4.1$ make
javac CentralServer.java
javac MainThread.java
-bash-4.1$ ls
CentralServer.class      ClientThread.java      Server.class
CentralServer.java       MainThread.class       Server_Interface.class
Client.class             MainThread.java        Server_Interface.java
Client_Interface.class   Makefile               Server.java
Client_Interface.java    Peer_1                 ServerThread.class
Client.java              Peer_2                 ServerThread.java
ClientThread.class       Peer_3
-bash-4.1$ java CentralServer
Indexing server has been created successfully
Napster Server has started! Register the peers
█
```

## 2.when each peer is connected to Indexing Server


Peer-1

 disci.hpcc.ttu.edu - PuTTY

```
login as: manalla
manalla@disci.hpcc.ttu.edu's password:
Last login: Fri Mar 31 19:04:35 2017 from 192.58.125.4
Use of Texas Tech computers and networks requires prior authorization.
Your use of these systems may be monitored by automated and/or manual
security testing procedures. Unauthorized use of these systems is
prohibited and abuse is subject to immediate termination of the account
or service and University disciplinary procedure and/or criminal
prosecution.

If you have questions concerning this notification screen, please
contact IT Help Central at 742-HELP (4357).
-bash-4.1$ java MainThread 8022
Error: Could not find or load main class MainThread
-bash-4.1$ cd pkgfinal/
-bash-4.1$ java MainThread 8022
Successfully Registered to Napster server
Enter PeerID:
1
Select an option
1.Search
2.exit
1
Enter the File name to search
█
```

## Peer-2

 disci.hpcc.ttu.edu - PuTTY

```
login as: manalla
manalla@disci.hpcc.ttu.edu's password:
Last login: Fri Mar 31 19:08:42 2017 from 192.58.125.4
Use of Texas Tech computers and networks requires prior authorization.
Your use of these systems may be monitored by automated and/or manual
security testing procedures. Unauthorized use of these systems is
prohibited and abuse is subject to immediate termination of the account
or service and University disciplinary procedure and/or criminal
prosecution.
```

```
If you have questions concerning this notification screen, please
contact IT Help Central at 742-HELP (4357).
```

```
-bash-4.1$ java MainThread 8033
```

```
Error: Could not find or load main class MainThread
```

```
-bash-4.1$ cd pkgfinal/
```

```
-bash-4.1$ java MainThread 8033
```

```
Successfully Registered to Napster server
```

```
Enter PeerID:
```

```
2
```

```
Select an option
```

```
1.Search
```


```
2.exit
```

```
1
```

```
Enter the File name to search
```

```
█
```

Peer-3:

 disci.hpcc.ttu.edu - PuTTY

```
login as: manalla
manalla@disci.hpcc.ttu.edu's password:
Last login: Fri Mar 31 19:11:56 2017 from 192.58.125.4
Use of Texas Tech computers and networks requires prior authorization.
Your use of these systems may be monitored by automated and/or manual
security testing procedures. Unauthorized use of these systems is
prohibited and abuse is subject to immediate termination of the account
or service and University disciplinary procedure and/or criminal
prosecution.
```

```
If you have questions concerning this notification screen, please
contact IT Help Central at 742-HELP (4357).
```

```
-bash-4.1$ cd pkgfinal/
```

```
-bash-4.1$ java MainThread 8333
```

```
Successfully Registered to Napster server
```

```
Enter PeerID:
```

```
3
```

```
Select an option
```

```
1.Search
```


```
2.exit
```

```
1
```

```
Enter the File name to search
```

```
█
```

3. When a peer search for file using the search method then indexing server returns the list of the other peers that hold the file . the user can pick one such peer and the client then connects to this peers and sends the requested file.

 disci.hpcc.ttu.edu - PuTTY

```
login as: manalla
manalla@disci.hpcc.ttu.edu's password:
Last login: Fri Mar 31 19:11:56 2017 from 192.58.125.4
Use of Texas Tech computers and networks requires prior authorization.
Your use of these systems may be monitored by automated and/or manual
security testing procedures. Unauthorized use of these systems is
prohibited and abuse is subject to immediate termination of the account
or service and University disciplinary procedure and/or criminal
prosecution.
```

```
If you have questions concerning this notification screen, please
contact IT Help Central at 742-HELP (4357).
```

```
-bash-4.1$ cd pkgfinal/
```

```
-bash-4.1$ java MainThread 8333
```

```
Successfully Registered to Napster server
```

```
Enter PeerID:
```

```
3
```

```
Select an option
```

```
1.Search
```

```
2.exit
```

```
1
```

```
Enter the File name to search
```

```
file11.txt
```

```
File:file11.txt is found on:
```

```
1
```


```
2
```

```
Enter the peer you want to connect:
```

```

```

#### 4. When we select the peer from the list of peers

 disci.hpcc.ttu.edu - PuTTY

```
login as: manalla
manalla@disci.hpcc.ttu.edu's password:
Last login: Fri Mar 31 19:11:56 2017 from 192.58.125.4
Use of Texas Tech computers and networks requires prior authorization.
Your use of these systems may be monitored by automated and/or manual
security testing procedures. Unauthorized use of these systems is
prohibited and abuse is subject to immediate termination of the account
or service and University disciplinary procedure and/or criminal
prosecution.

If you have questions concerning this notification screen, please
contact IT Help Central at 742-HELP (4357).
-bash-4.1$ cd pkgfinal/
-bash-4.1$ java MainThread 8333
Successfully Registered to Napster server
Enter PeerID:
3
Select an option
1.Search
2.exit
1
Enter the File name to search
file11.txt
File:file11.txt is found on:
1
2
Enter the peer you want to connect:
1
Successfully Connected
8022
File Transfer Sucessfull
-bash-4.1$ █
```

## 5. Average Response time:

```
-The location you are trying to connect from (on- or off-campus)
-Specific error messages

Last login: Wed Mar 16 03:18:01 2016 from 75-111-243-183.lbbkcmtk04.res.dyn.suddenlink.net
vpapinen@treebeard:~$ java ThreadMainClass 2017
Successfully Connected to Index server
Enter PeerID:
3
Select an option
1.Search
2.exit
1
Enter the File name to search
file6.txt
File:file6.txt is found on:
1
2
Enter the peer you want to connect:
1
Successfully Connected
2015
File Transfer Sucessfull
Average response time for peer 3 is 25ms
Select an option
1.Search
2.exit
```