SCREENSHOTS FOR THE PROGRAMMING PROJECT ON PEER TO PEER PROGRAMMING

1.Server up and Running


```
narnimah@treebeard: ~/RMI_Server                                                        —    □    ×
login as: narnimah
narnimah@129.118.182.48's password:

Welcome to treebeard.cs.ttu.edu.
If you have any problems, please email support.coe@ttu.edu
and include any relevant information such as:

    -Name of operating system and version that you are using
    -Particular software programs and versions you are using
    -The full DNS name of the machine you are accessing
    -The location you are trying to connect from (on- or off-campus)
    -Specific error messages

Last login: Wed Mar 16 02:32:07 2016 from 75-111-251-64.lbbkcmtk04.res.dyn.suddenlink.net
narnimah@treebeard:~$ cd RMI_Server/
narnimah@treebeard:~/RMI_Server$ java ThreadOfHelloServer
Hello Server is ready.
```

2.Peer1 registered to the server


```
narnimah@treebeard: ~/RMI_Server                                                        —    □    ×
login as: narnimah
narnimah@129.118.182.48's password:

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    -Specific error messages

Last login: Wed Mar 16 02:35:18 2016 from 75-111-251-64.lbbkcmtk04.res.dyn.sudde
nlink.net
narnimah@treebeard:~$ cd RMI_Server/
narnimah@treebeard:~/RMI_Server$ java ThreadOfHelloClient
Enter the port number on which peer needs to be registered
4000
Enter the directory path
/home/TTU/narnimah/testfiles_1
Directory name/home/TTU/narnimah/testfiles_1
Enter the peer ID
1
Enter the file name to be searched
```

3. Peer3 registered to the server


```
narnimah@treebeard: ~/RMI_Server                                    —  □  ×
login as: narnimah
narnimah@129.118.182.48's password:

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    -Specific error messages

Last login: Wed Mar 16 02:36:57 2016 from 75-111-251-64.lbbkcmtk04.res.dyn.sudde
nlink.net
narnimah@treebeard:~$ cd RMI_Server/
narnimah@treebeard:~/RMI_Server$ java ThreadOfHelloClient
Enter the port number on which peer needs to be registered
4001
Enter the directory path
/home/TTU/narnimah/testfiles_2
Directory name/home/TTU/narnimah/testfiles_2
Enter the peer ID
3
Enter the file name to be searched
```

4. Peer2 registered to the server


```
narnimah@treebeard: ~/RMI_Server                                    —  □  ×
login as: narnimah
narnimah@129.118.182.48's password:

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    -The full DNS name of the machine you are accessing
    -The location you are trying to connect from (on- or off-campus)
    -Specific error messages

Last login: Wed Mar 16 02:39:32 2016 from 75-111-251-64.lbbkcmtk04.res.dyn.sudde
nlink.net
narnimah@treebeard:~$ cd RMI_Server/
narnimah@treebeard:~/RMI_Server$ java ThreadOfHelloClient
Enter the port number on which peer needs to be registered
4002
Enter the directory path
/home/TTU/narnimah/testfiles_3
Directory name/home/TTU/narnimah/testfiles_3
Enter the peer ID
2
Enter the file name to be searched
```

5.Central Indexing Server registering all the peers on the specified port


```
narnimah@treebeard: ~/RMI_Server                                                         —    □    ×
login as: narnimah
narnimah@129.118.182.48's password:

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   -Particular software programs and versions you are using
   -The full DNS name of the machine you are accessing
   -The location you are trying to connect from (on- or off-campus)
   -Specific error messages

Last login: Wed Mar 16 02:32:07 2016 from 75-111-251-64.lbbkcmtk04.res.dyn.suddenlink.net
narnimah@treebeard:~$ cd RMI_Server/
narnimah@treebeard:~/RMI_Server$ java ThreadOfHelloServer
Hello Server is ready.
File name  TTU691188565_a2_form.pdfregistered with peerID  1on port number 4000and the directory path is /home/TTU/narnimah/testfiles_1
File name  AOS_Assignment.pdfregistered with peerID  1on port number 4000and the directory path is /home/TTU/narnimah/testfiles_1
File name  photo.pngregistered with peerID  1on port number 4000and the directory path is /home/TTU/narnimah/testfiles_1
File name  Resignation_letter_NikithaMahesh.docregistered with peerID  1on port number 4000and the directory path is /home/TTU/narnimah/testfiles_1
File name  TestingFile.pdfregistered with peerID  1on port number 4000and the directory path is /home/TTU/narnimah/testfiles_1
File name  coa_homework2_NikithaMahesh.pdfregistered with peerID  1on port number 4000and the directory path is /home/TTU/narnimah/testfiles_1
File name  TTU691188565_a2_form.pdfregistered with peerID  3on port number 4001and the directory path is /home/TTU/narnimah/testfiles_2
File name  peer_3.PNGregistered with peerID  3on port number 4001and the directory path is /home/TTU/narnimah/testfiles_2
File name  peer_2.PNGregistered with peerID  3on port number 4001and the directory path is /home/TTU/narnimah/testfiles_2
File name  marks_card_1sem.JPGregistered with peerID  3on port number 4001and the directory path is /home/TTU/narnimah/testfiles_2
File name  TTU691188565_auth_letter.pdfregistered with peerID  3on port number 4001and the directory path is /home/TTU/narnimah/testfiles_2
File name  photo.pngregistered with peerID  3on port number 4001and the directory path is /home/TTU/narnimah/testfiles_2
File name  testfille.txtregistered with peerID  3on port number 4001and the directory path is /home/TTU/narnimah/testfiles_2
File name  TestingFile.pdfregistered with peerID  3on port number 4001and the directory path is /home/TTU/narnimah/testfiles_2
File name  marks_card_1sem_part2.JPGregistered with peerID  3on port number 4001and the directory path is /home/TTU/narnimah/testfiles_2
File name  peer_1.PNGregistered with peerID  3on port number 4001and the directory path is /home/TTU/narnimah/testfiles_2
File name  TTU691188565_a2_form.pdfregistered with peerID  2on port number 4002and the directory path is /home/TTU/narnimah/testfiles_3
File name  peer_3.PNGregistered with peerID  2on port number 4002and the directory path is /home/TTU/narnimah/testfiles_3
File name  peer_2.PNGregistered with peerID  2on port number 4002and the directory path is /home/TTU/narnimah/testfiles_3
File name  marks_card_1sem.JPGregistered with peerID  2on port number 4002and the directory path is /home/TTU/narnimah/testfiles_3
File name  TTU691188565_auth_letter.pdfregistered with peerID  2on port number 4002and the directory path is /home/TTU/narnimah/testfiles_3
File name  testfille.txtregistered with peerID  2on port number 4002and the directory path is /home/TTU/narnimah/testfiles_3
File name  TestingFile.pdfregistered with peerID  2on port number 4002and the directory path is /home/TTU/narnimah/testfiles_3
File name  TestingFile.txtregistered with peerID  2on port number 4002and the directory path is /home/TTU/narnimah/testfiles_3
File name  marks_card_1sem_part2.JPGregistered with peerID  2on port number 4002and the directory path is /home/TTU/narnimah/testfiles_3
File name  peer_1.PNGregistered with peerID  2on port number 4002and the directory path is /home/TTU/narnimah/testfiles_3
```

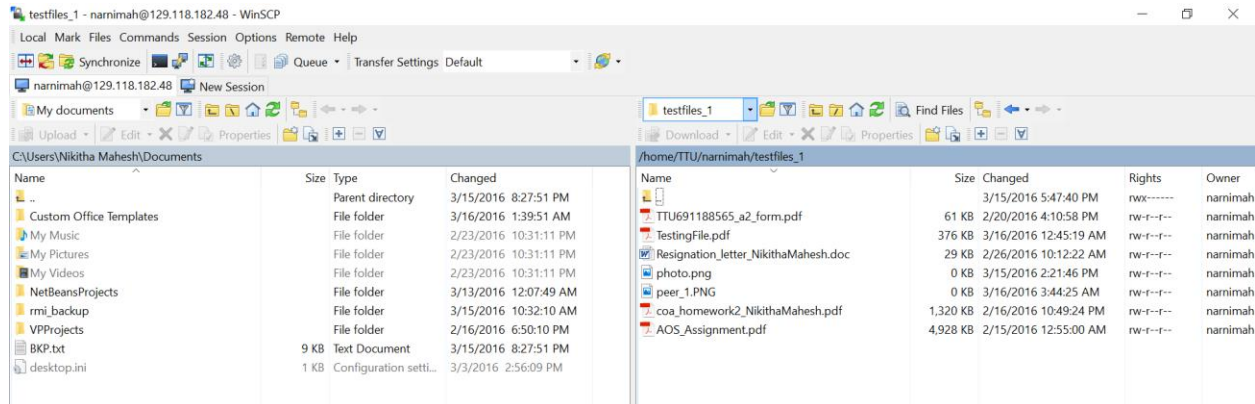## 6.Searching for a file named "peer_1.PNG" and downloading it to the current peer.


```
narnimah@treebeard: ~/RMI_Server                                                         —    □    ×
login as: narnimah
narnimah@129.118.182.48's password:

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nlink.net
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narnimah@treebeard:~/RMI_Server$ java ThreadOfHelloClient
Enter the port number on which peer needs to be registered
4000
Enter the directory path
/home/TTU/narnimah/testfiles_1
Directory name/home/TTU/narnimah/testfiles_1
Enter the peer ID
1
Enter the file name to be searched
peer_1.PNG
Peer ID's having the given file are 3
Peer ID's having the given file are 2
Enter the peerID of the peer you want to connect?
3
file /home/TTU/narnimah/testfiles_1
```
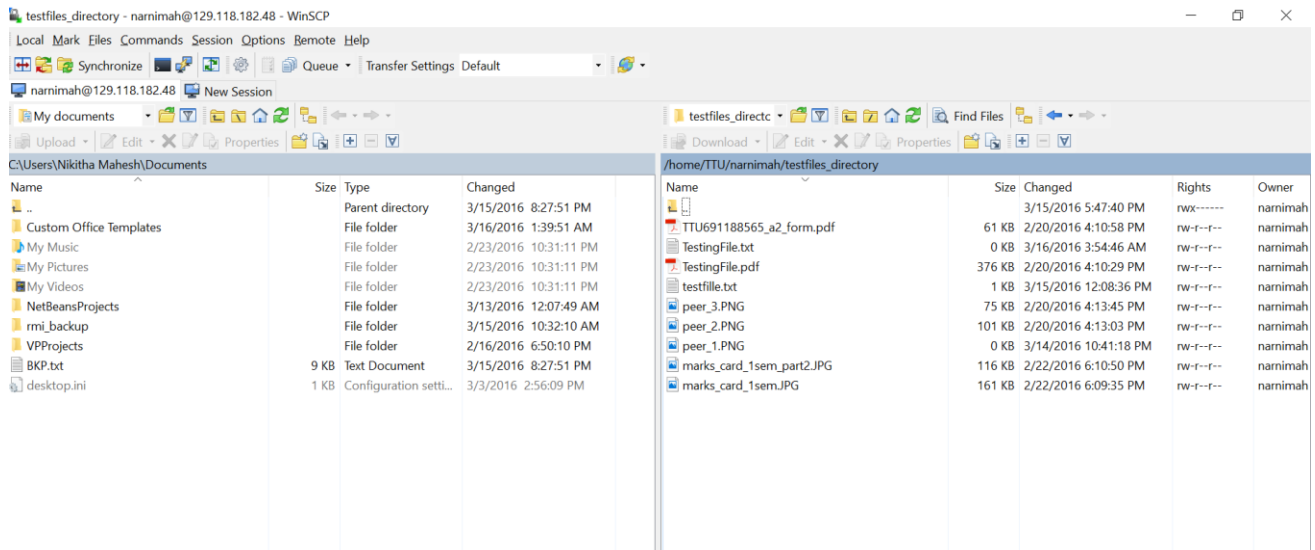
7.After Downloading is complete

8.Average Response Time Computed after calling the Download File method 1000 times sequentially.

9.After Downloading the file on the specified path

10.Compute the Response time when multiple clients are concurrently running.

```
login as: narnimah
narnimah@129.118.182.48's password:

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    -Specific error messages

Last login: Wed Mar 16 02:48:32 2016 from 75-111-251-64.lbbkcmtk04.res.dyn.sudde
nlink.net
narnimah@treebeard:~$ cd RMI_Server/
narnimah@treebeard:~/RMI_Server$ java ConcurrentFileSearch
Perr that is currently running is , 21
Perr that is currently running is , 22
Perr that is currently running is , 23
The start time is: 2298445158971949
file /home/TTU/narnimah/testfiles_1
The endTime is: 4711616
The responseTime is: 4711616
The start time is: 2298445172448181
The start time is: 2298445172590285
file /home/TTU/narnimah/testfiles_2
file /home/TTU/narnimah/testfiles_3
The endTime is: 4923521
The endTime is: 4891420
The responseTime is: 4891420
The responseTime is: 4923521
```