Output

Text in BLACK is console output and text in **RED** is console input.

Peer:

Run command: make run_peer

Output:

********** PEER CLIENT STARTED **********

********** PEER SERVER STARTED **********

Enter Server Address:

192.168.206.128

Hello, you are Peer #20.

Do you want your node to act as a replication node? This requires your disk space to be large. (Y/N): **N**

What do you want to do?

1.Register files with indexing server.
2.Lookup for a file at index server.
3.Un-register all files of this peer from the indexing server.
4.Print download log of this peer.
5.Exit.
Enter choice and press ENTER: **1**

Enter path of the files (multiple files) OR full path of a file with filename (single file) to sync with indexing server:

/home/gautammishra/node1

11 files registered with indexing server. Time taken: 0.049 seconds.

What do you want to do?

1.Register files with indexing server.
2.Lookup for a file at index server.
3.Un-register all files of this peer from the indexing server.
4.Print download log of this peer.
5.Exit.
Enter choice and press ENTER: **2**

Enter name of the file you want to look for at indexing server:

chicago.txt

File Found. Lookup time: 0.042 seconds.

Peer ID:4
Host Address:192.168.206.130

Peer ID:1
Host Address:192.168.206.128

Do you want to download (D) or print this file (P)? Enter (D/P): **D**

Enter Peer ID from which you want to download the file:**1**

The file will be downloaded in the 'downloads' folder in the current location.

Downloading file chicago.txt
Requesting file.........
Downloading file........
File downloaded successfully in 0.062 seconds.

What do you want to do?

1.Register files with indexing server.

2.Lookup for a file at index server.

3.Un-register all files of this peer from the indexing server.

4.Print download log of this peer.

5.Exit.

Enter choice and press ENTER: **3**

Are you sure (Y/N)?: **Y**

Your files have been un-registered from the indexing server.

Time taken: 0.0 seconds.

What do you want to do?

1.Register files with indexing server.

2.Lookup for a file at index server.

3.Un-register all files of this peer from the indexing server.

4.Print download log of this peer.

5.Exit.

Enter choice and press ENTER: **4**

LOG
==
09-22-2015 13:58:21 => File downloading with /192.168.206.129 started.
09-22-2015 13:58:21 => Serving download request for 192.168.206.129
09-22-2015 13:58:21 => Uploading/Sending file terms.txt
09-22-2015 13:58:21 => File sent successfully.

09-22-2015 16:36:55 => File downloading with /192.168.206.128 started.

09-22-2015 16:36:55 => Serving download request for 192.168.206.128
09-22-2015 16:36:55 => Uploading/Sending file chicago.txt
09-22-2015 16:36:55 => File sent successfully.

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What do you want to do?

1.Register files with indexing server.

2.Lookup for a file at index server.

3.Un-register all files of this peer from the indexing server.

4.Print download log of this peer.

5.Exit.

Enter choice and press ENTER: **5**

Thanks for using this system.

Indexing Server:

********** INDEXING SERVER STARTED **********

********** INDEXING SERVER STARTED **********

New connection with Peer # 1 at /192.168.206.128

Total number of peers connected:1

Registering files from Peer 192.168.206.128

11 files synced with Peer 1 and added to index database

Looking up a file.

Request from Peer 192.168.206.128 to look for file chicago.txt

File Found.

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Indexing Server doesn't require any input from the user. It prints messages about whatever is going on the server like request/response.