Manual:

System Environment Setup:

FileGenerator.java

- This class is to creating text files for any size which you want. Just change in sizeof file variable o=in class.

Config.properties

List all peer's ip address and port number on config.properties file.

Execution of System:

--Goto execution directory and run p2pClient.jar

\$ java –jar p2pClient.*jar*

Eenter server_port : <Enter port number for server to start> Enter server IP Address : <Enter IP address for server/client to start>

It display below message after successfully starting of server

Trying to connect......

Connection estabralished from/127.0.0.1 and port8089

 After connection established with all other peers in network it will provide below options.

Note: Always select Shared directory like pee1,pee2,peer3 ...in sequence. First Start all 8 servers.

Please enter Shared Directory Name: peer1

PeerID: 8880

Options:

1 - Register File into DHT

2 - Search File into DHT

3 - Obtain File

4 - Exit

<select option> : "1"
Enter Filename :
abcd.txt

- It will register file into Distributed hash table using hash function and replicate that file into another peer.
- Now for search operation

PeerID: 8880 Options:

```
Options:

1 - Register File into DHT

2 - Search File into DHT

3 - Obtain File

4 - Exit

2

Enter File Name to search for avilable peers:

abcd.txt
```

- It will provide list of peers which have files with theire IP and port number
- Below Peer have 2000.txt in their shared directory:
- *192.168.0.23:8870*
- 192.168.0.23:8871
- Lookup Response time: 4616000 ns
- Now for obtain operation

```
PeerID: 8880
Options:
1 - Register File into DHT
2 - Search File into DHT
3 - Obtain File
4 - Exit
3
Enter File Name to Download from avilable peers: abcd.txt
```

- It will download file from another peer if that's peer not available in network then it will try to locate replication and download it.