

Manual :

System Environment Setup :

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
```

Enter 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 established from/127.0.0.1 and port8089

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

PeerID: 8880

Options:

1 - Put<key,value> function

2 - Get<key> function

3 - Del<key> function

4 - Evaluation

<select option> : "1"

Enter the key between (100000 - 899999) :

763456

Enter the respective value of the key-:

iitChicago

- It will give server-name and success/failure message as below

Server-7

True

- Now for get operation

PeerID: 8880

Options:

1 - Put<key,value> function

2 - Get<key> function

3 - Del<key> function

4 - Evaluation

2

Enter the key you want to get value between <100000 - 899999> :

763456

- It will provide values for key and location server name

*Server-7
iitChicago*

- Now for del operation

PeerID: 8880

Options:

1 - Put<key,value> function

2 - Get<key> function

3 - Del<key> function

4 - Evaluation

3

Enter the key you want to delete value between <100000 - 899999> :

763456

- It will give success/failure and location server name

*Server-7
true*

- Now for Evaluation operation

PeerID: 8880

Options:

1 - Put<key,value> function

2 - Get<key> function

3 - Del<key> function

4 - Evaluation

4

Options:

1 - Put Benchmarking

2 - Get Benchmarking

3 - Del Benchmarking

1

Options:

1 - Server-1

2 - Server-2

3 - Server-3

4 - Server-4

5 - Server-5

6 - Server-6

7 - Server-7

8 - Server-8

- Here Server options are as key ranges, like in you select Server-1 then key range(100000-199999) will put on network
- It will give response time

Download Response time: 17451706548ns