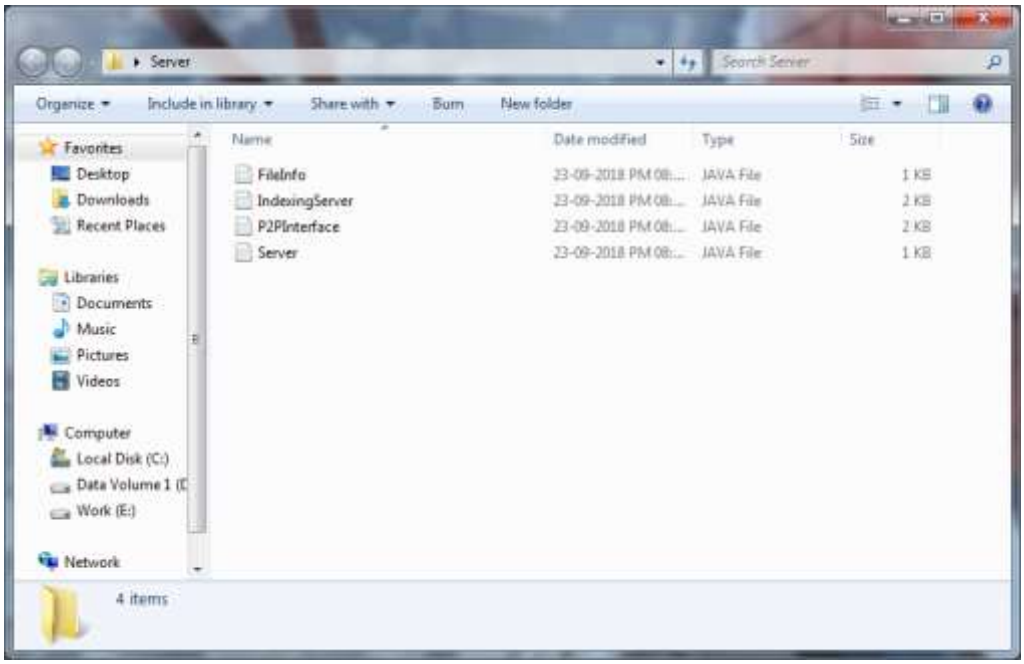
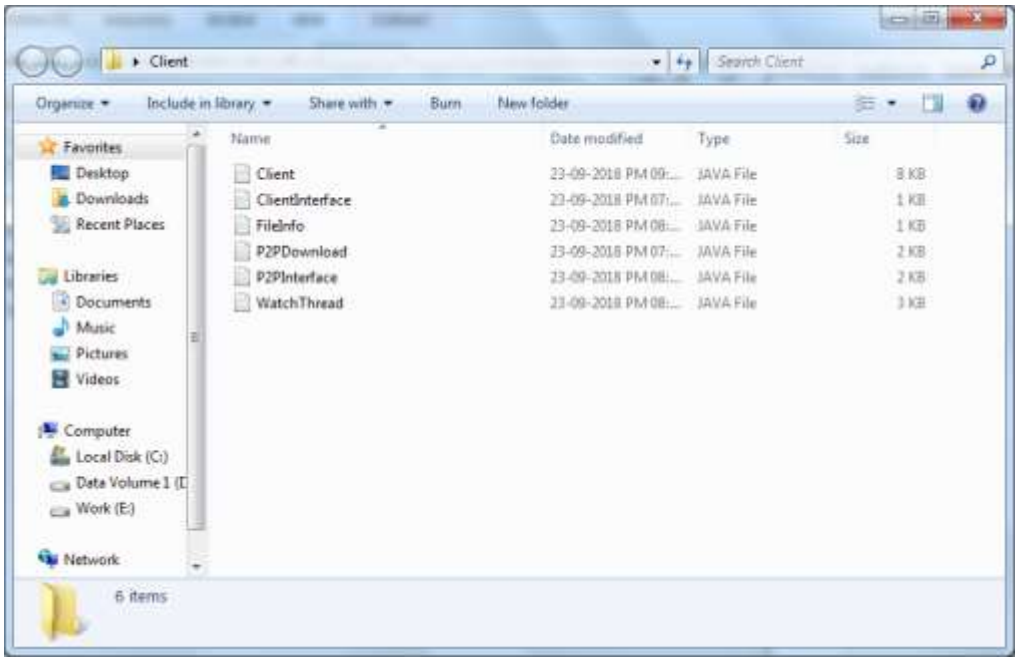
AOS Programming Assignment 1

User Manual

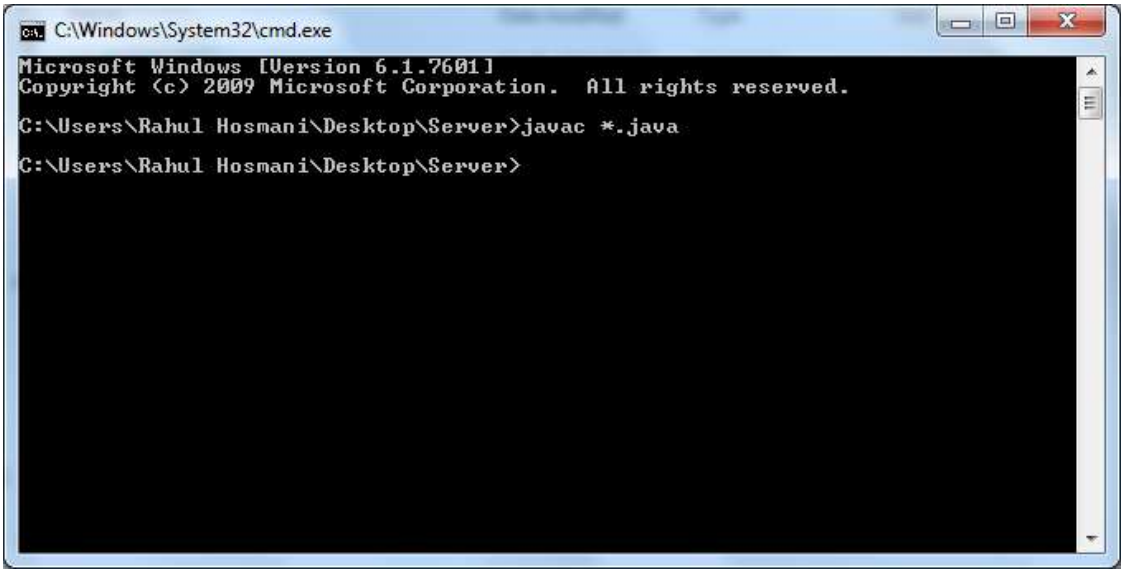
The project has two directories which contains the source files of the Client and Server respectively. Please follow the following steps to execute the Assignment.





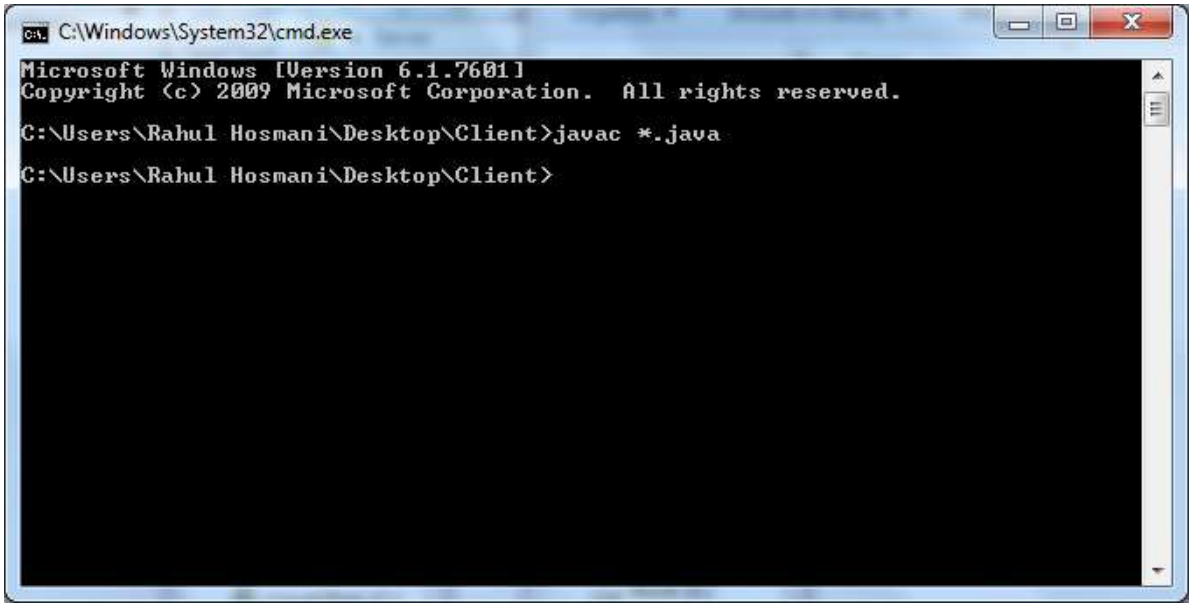
1. Open command prompt and navigate to the directory which contains all the source files of the server. Execute the following command.

```
javac *.java
```



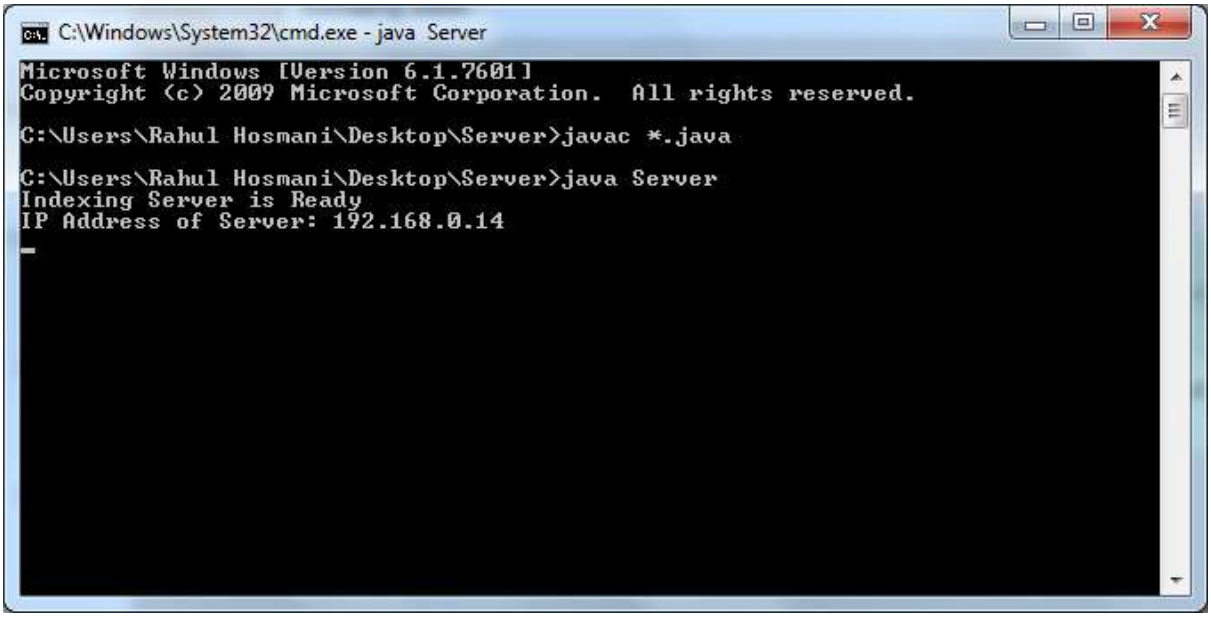
2. Open a separate command prompt and navigate to the directory which contains all the source files of the client. Execute the following command

```
javac *.java
```



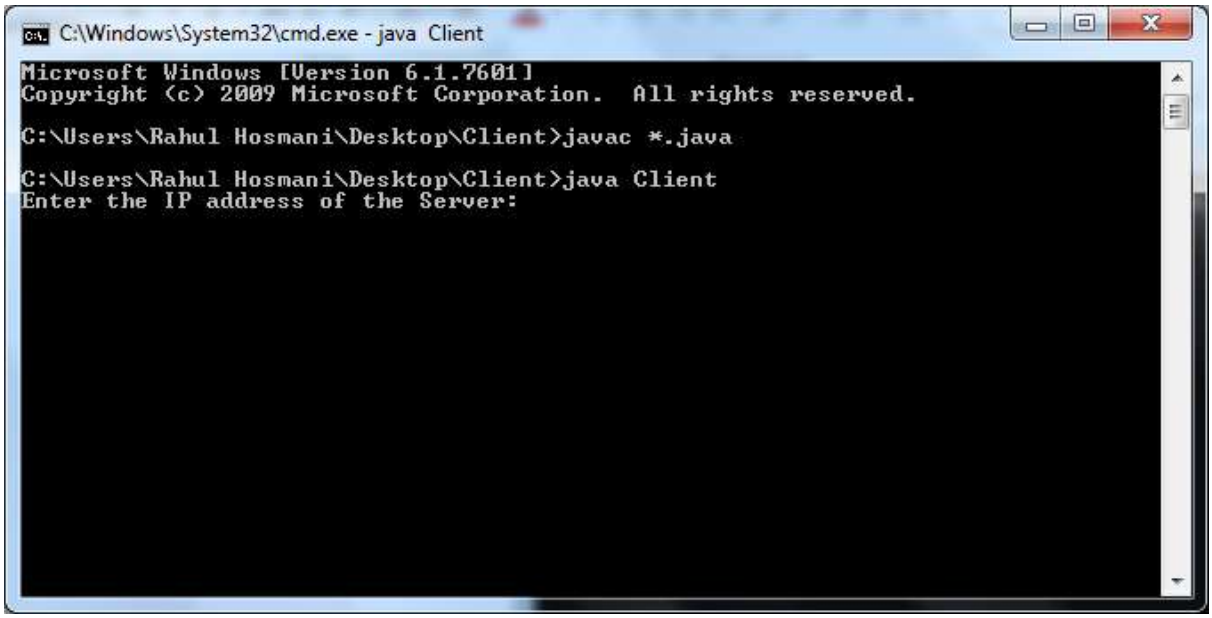
3. Execute server file.

```
java Server
```



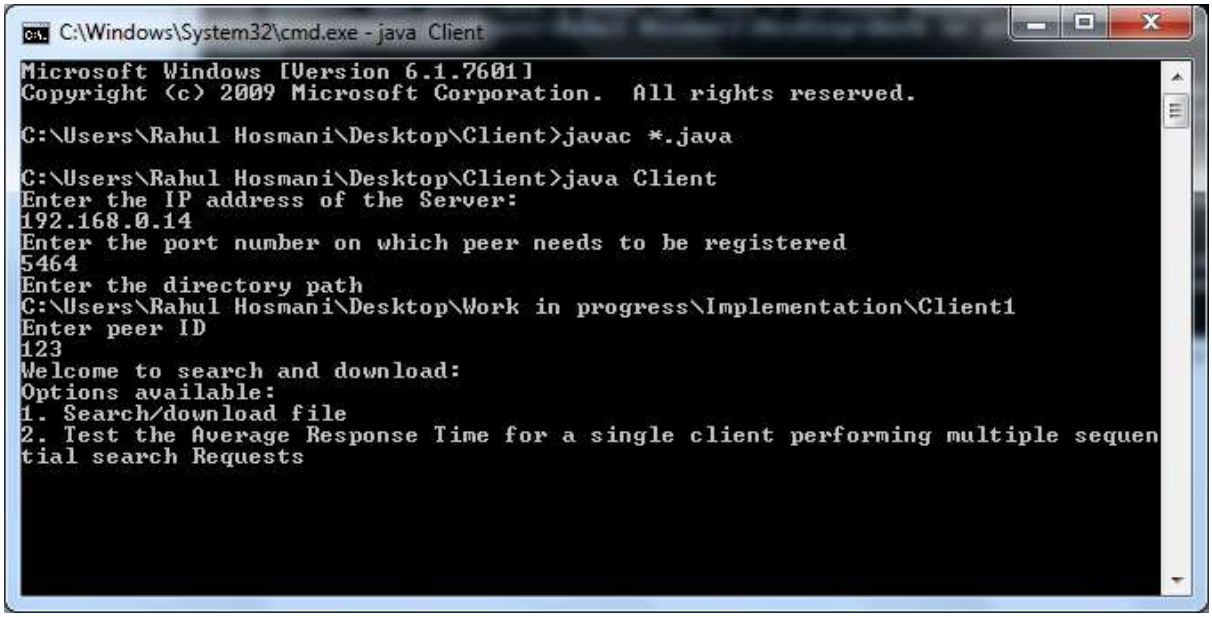
4. Execute Client file

```
java Client
```

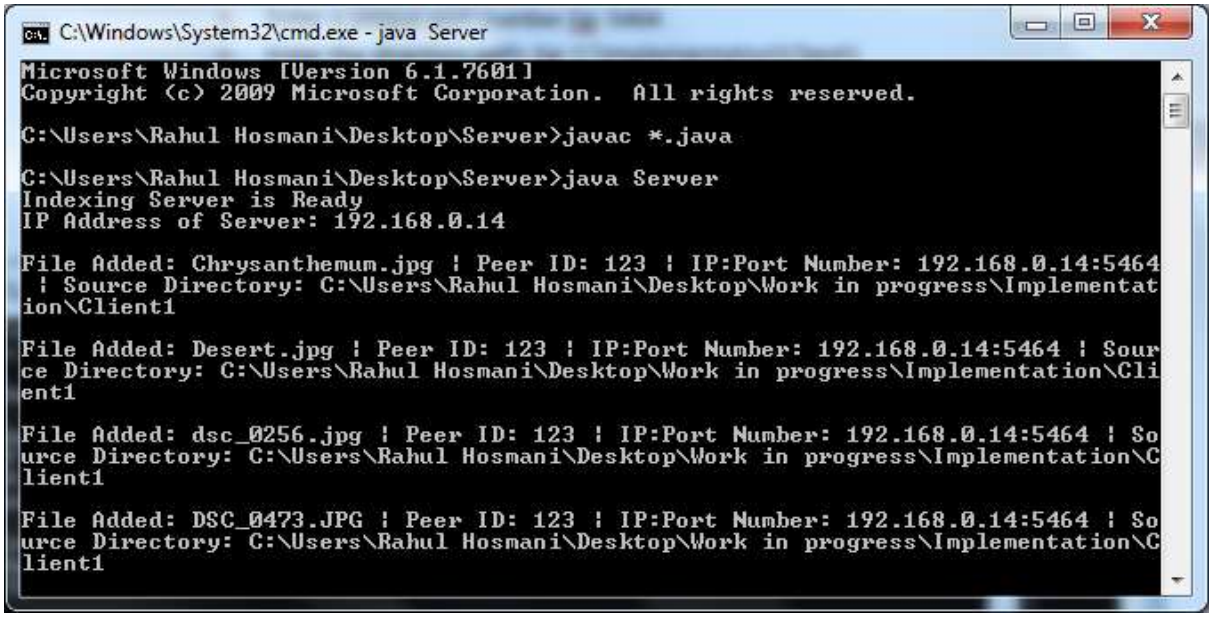


5. In the Client window,
    a. Enter the server ip which is displayed in the server window
    b. Enter a unique port number Eg: 5464
    c. Enter the directory path: Eg: C:\Implementation\Client1

d. Enter peer ID to identify yourself on the network Eg: 123



The files have been indexed and displayed in the server window.

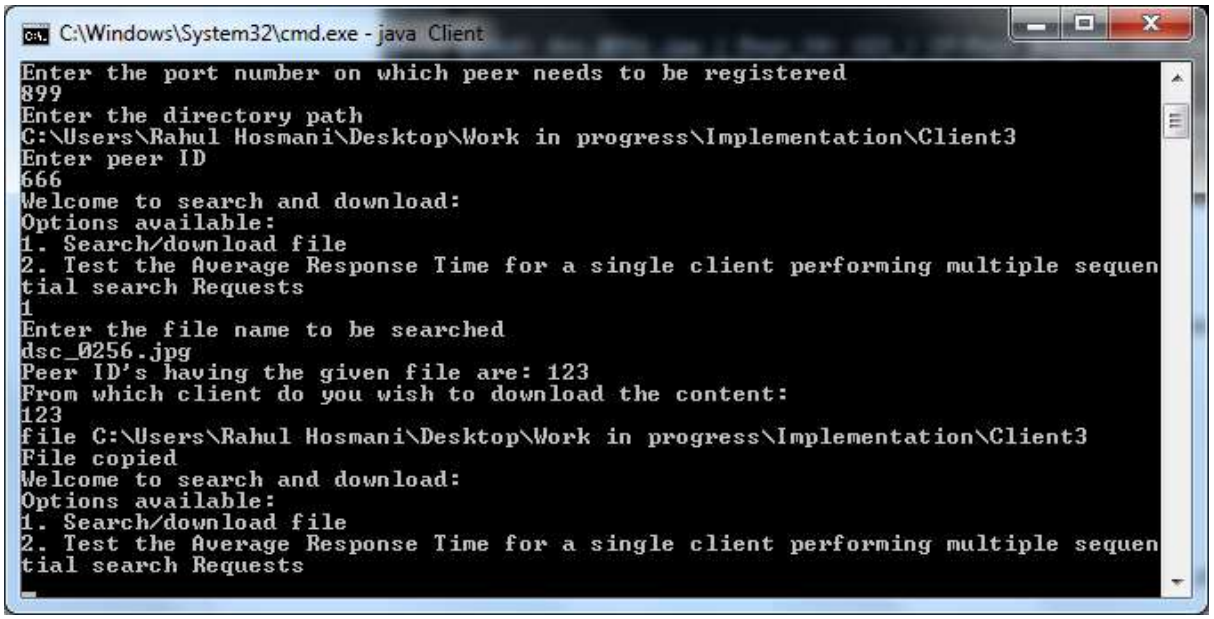


6. Execute Step 4 and 5 to create multiple clients, making sure they have a different directory path, unique port number and peer id.

To download a file:

Precondition: The server should be running. And at least two clients should be registered.

1. In the client window,
    a. Press 1 to Start search and Download a file
    b. Enter the file name which the other client has in its shared directory. Eg.: dsc_0256.jpg
    c. The program will give a list of peers that contain the searched file.
    d. Enter the peer id.
    e. The file has been downloaded.



To Test Average response time for multiple sequential search:

Precondition: The server should be running. And at least two clients should be registered.

2. In the client window,
    a. Press 2 to Start the test
    b. Enter the number of sequential search requests. Eg: 500
    c. Enter File name to be searched Eg: Chrysanthemum.jpg

d. The average response time for 500 sequential requests is displayed.