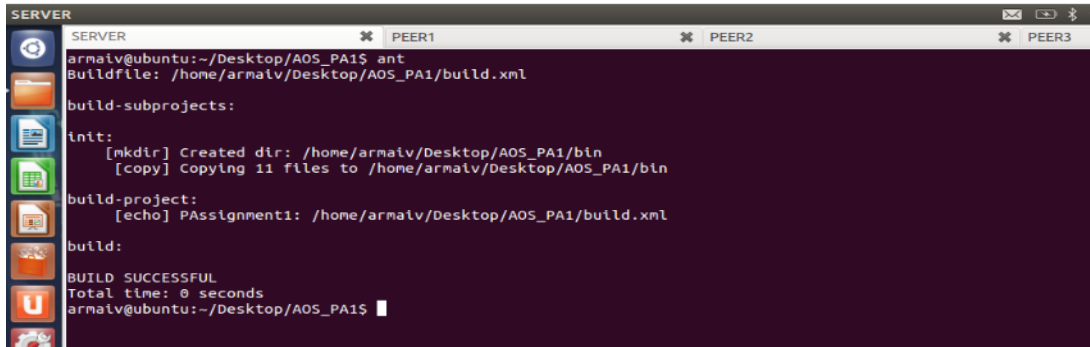


# User Manual

**Step 1:** Compile and build the Source Code (all java Files) using ant command

(build.xml –ant file, config.properties – property file )



```
SERVER
armaiv@ubuntu:~/Desktop/AOS_PA1$ ant
Buildfile: /home/armaiv/Desktop/AOS_PA1/build.xml

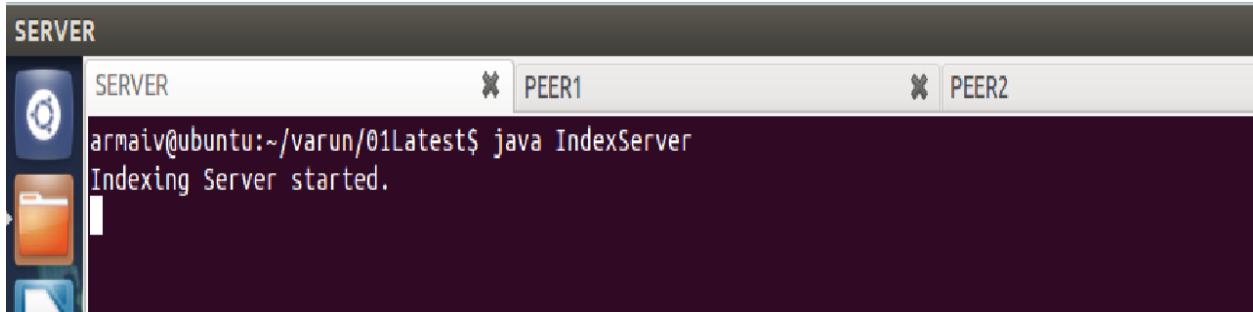
build-subprojects:
init:
[mkdir] Created dir: /home/armaiv/Desktop/AOS_PA1/bin
[copy] Copying 11 files to /home/armaiv/Desktop/AOS_PA1/bin
build-project:
[echo] PAssignment1: /home/armaiv/Desktop/AOS_PA1/build.xml
build:
BUILD SUCCESSFUL
Total time: 0 seconds
armaiv@ubuntu:~/Desktop/AOS_PA1$
```

**Step 2:** Open Config.properties file and change PeerFiles Directory path according to your local computer and Peer Servers port number.

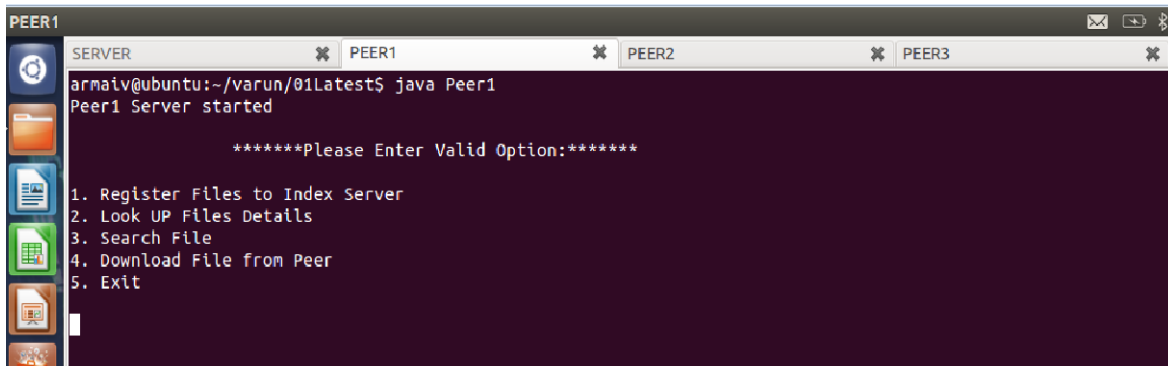
Example: Assuming here Indexing server port =5000, Peer1 port =6000, peer2 port = 7000, peer3 port=8000. Tested on local host and it is working fine.

```
config.IserverPort=5000
config.P1serverPort=6000
config.P2serverPort=7000
config.P3serverPort=8000
config.IP=localhost
config.peerDirectory1=/home/armaiv/workspace/PAssignment1/Peer1Files/
config.peerDirectory2=/home/armaiv/workspace/PAssignment1/Peer1Files/
config.peerDirectory3=/home/armaiv/workspace/PAssignment1/Peer1Files/
```

**Step 3:** First Run Indexing server in Linux terminal.



**Step 4:** Run PeerOne, PeerTwo, PeerThree in different computers or VM or Different Terminals.



**Step 5:** On PeerOne or PeerTwo or PeerThree terminal, Do the following operations as mentioned in menu.

- 1) Register Files - It will register all files from Peer Files Directory to Indexing server.

```
PEER2
SERVER PEER1 PEER2 PEER3
armaiv@ubuntu:~/varun/01Latest$ java Peer2
Peer2 Server started.

*****Please Enter Valid Option:*****

1. Register Files to Index Server
2. Look UP Files Details
3. Search File
4. Download File from Peer
5. Exit

1
Files Registered Successfully On Indexing Server 127.0.1.1
```

2) Look UP Files – It will display all registered files on the Indexing Server.

```
PEER3
SERVER PEER1 PEER2 PEER3
Files Registered Successfully On Indexing Server 127.0.1.1

*****Please Enter Valid Option:*****

1. Register Files to Index Server
2. Look UP Files Details
3. Search File
4. Download File from Peer
5. Exit

2
-----
File Name: SPM.txt Peer Info: /127.0.0.1:56123
File Name: AOS.txt- Peer Info: /127.0.0.1:56123
File Name: peer2_9.txt Peer Info: /127.0.0.1:56121
File Name: Career fair 2015.pdf Peer Info: /127.0.0.1:56121
File Name: peer2_2.txt Peer Info: /127.0.0.1:56121
File Name: peer2_5.txt Peer Info: /127.0.0.1:56121
File Name: SE.txt Peer Info: /127.0.0.1:56123
File Name: peer2_8.txt Peer Info: /127.0.0.1:56121
File Name: WC.txt Peer Info: /127.0.0.1:56123
File Name: advanced OS.pdf Peer Info: /127.0.0.1:56119
File Name: CC.txt Peer Info: /127.0.0.1:56123
File Name: peer2_6.txt Peer Info: /127.0.0.1:56121
File Name: IITC.pdf Peer Info: /127.0.0.1:56121
File Name: peer2_1.txt Peer Info: /127.0.0.1:56121
File Name: ADO.txt Peer Info: /127.0.0.1:56123
File Name: Chicago.jpg Peer Info: /127.0.0.1:56121
```

3) Search File – It will ask for File name, enter the file name it will return the File name and peer IP address which one is holding this file.

```
PEER1
SERVER  PEER1  PEER2  PEER3
armaiv@ubuntu:~/varun/01Latest$ java Peer1
Peer1 Server started

*****Please Enter Valid Option:*****

1. Register Files to Index Server
2. Look UP Files Details
3. Search File
4. Download File from Peer
5. Exit

3
Enter File name:
AOS.txt
File Found !!
File Info: AOS.txt      Peer Info: /127.0.0.1:56123
```

- 4) Download File – It will ask for Peer IP address and port (on which peer server is running) number and file name, after Searching a file, enter correct file and peer info from search File result to download the particular file. Any peer can download registered files from any Peer. It is supporting both **text** and **binary** files in transfer.

```
SERVER  PEER1  PEER2  PEER3
armaiv@ubuntu:~/varun/01Latest$ java Peer1
Peer1 Server started

*****Please Enter Valid Option:*****

1. Register Files to Index Server
2. Look UP Files Details
3. Search File
4. Download File from Peer
5. Exit

3
Enter File name:
AOS.txt
File Found !!
File Info: AOS.txt      Peer Info: /127.0.0.1:56123

*****Please Enter Valid Option:*****

1. Register Files to Index Server
2. Look UP Files Details
3. Search File
4. Download File from Peer
5. Exit

4
Enter Peer IP Address: 127.0.0.1
Enter Peer PORT: 8000
Enter File Name..to start download..
AOS.txt
File AOS.txt Download completed :)
```

