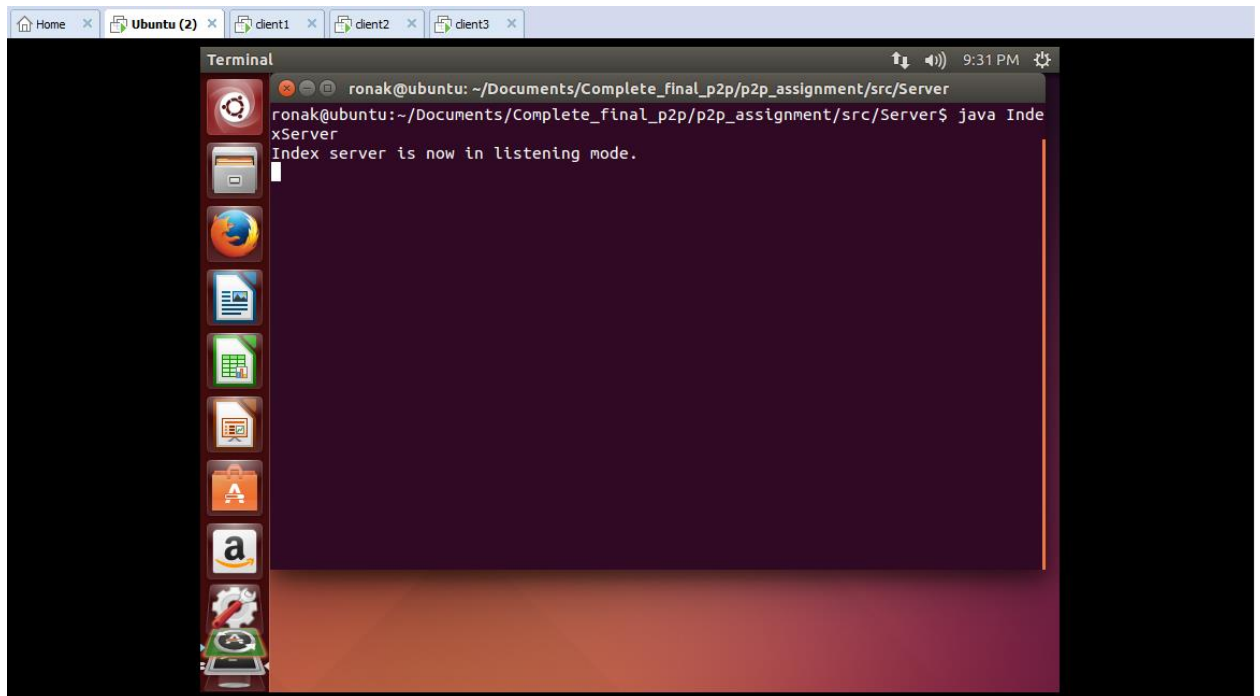


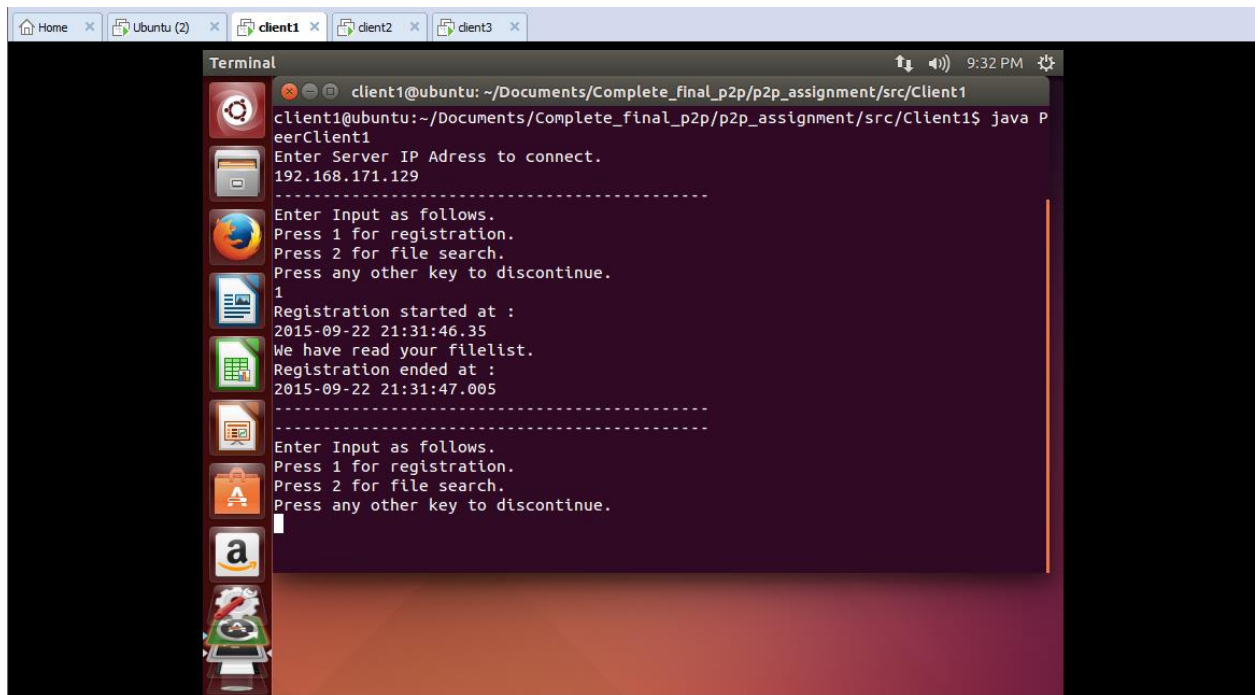
1. Server in listening mode.



A terminal window titled 'Terminal' is open on an Ubuntu desktop. The window has tabs for 'Home', 'Ubuntu (2)', 'client1', 'client2', and 'client3'. The terminal shows the command `java IndexServer` being executed in the directory `~/Documents/Complete_final_p2p/p2p_assignment/src/Server`. The output is `Index server is now in listening mode.`

```
ronak@ubuntu: ~/Documents/Complete_final_p2p/p2p_assignment/src/Server
ronak@ubuntu:~/Documents/Complete_final_p2p/p2p_assignment/src/Server$ java IndexServer
Index server is now in listening mode.
```

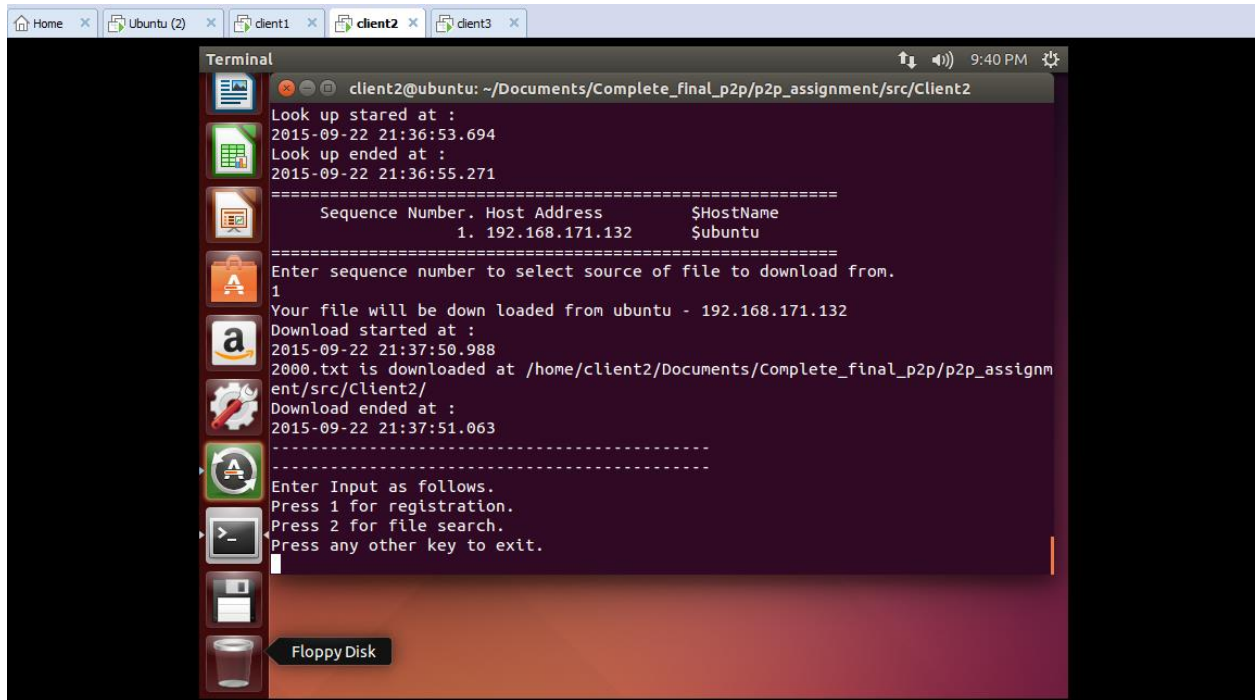
2. Peer1's registration



A terminal window titled 'Terminal' is open on an Ubuntu desktop, showing the registration process for Peer1. The window has tabs for 'Home', 'Ubuntu (2)', 'client1', 'client2', and 'client3'. The terminal shows the command `java PeerClient1` being executed in the directory `~/Documents/Complete_final_p2p/p2p_assignment/src/Client1`. The output prompts for the server IP address (192.168.171.129) and then for input (1 for registration, 2 for file search, or any other key to discontinue). The registration process is shown with timestamps and a filelist read confirmation.

```
client1@ubuntu: ~/Documents/Complete_final_p2p/p2p_assignment/src/Client1
client1@ubuntu:~/Documents/Complete_final_p2p/p2p_assignment/src/Client1$ java PeerClient1
Enter Server IP Address to connect.
192.168.171.129
-----
Enter Input as follows.
Press 1 for registration.
Press 2 for file search.
Press any other key to discontinue.
1
Registration started at :
2015-09-22 21:31:46.35
We have read your filelist.
Registration ended at :
2015-09-22 21:31:47.005
-----
Enter Input as follows.
Press 1 for registration.
Press 2 for file search.
Press any other key to discontinue.
```

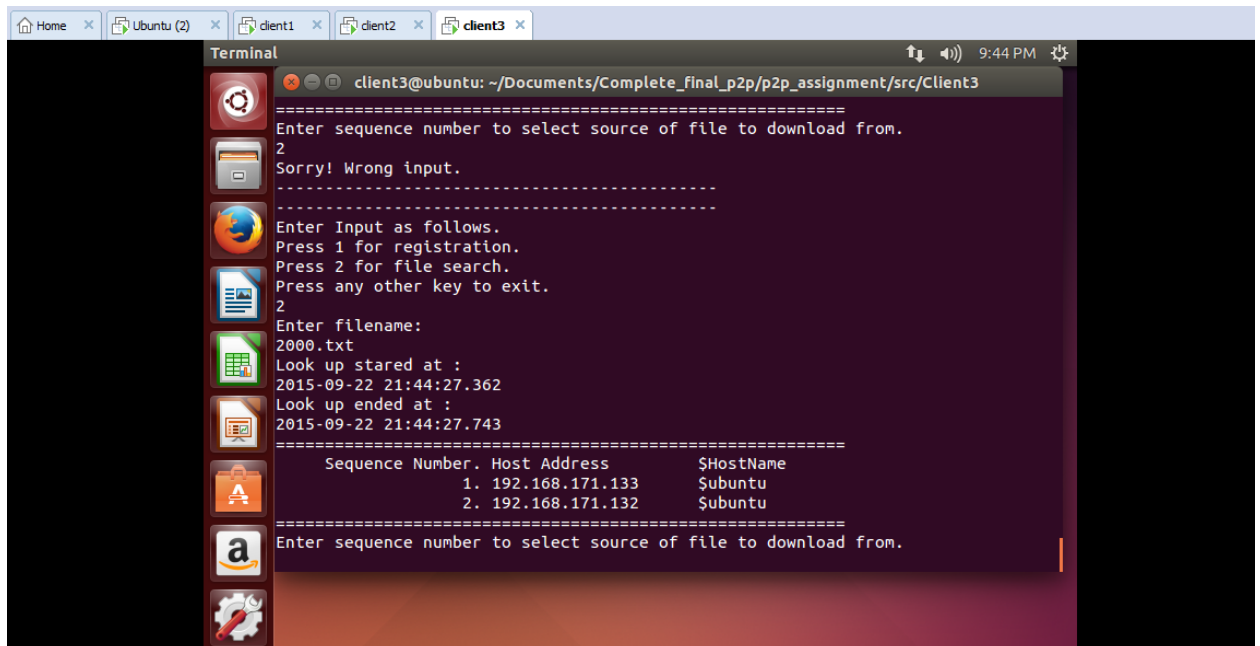
3. Peer2's search and download.



The terminal window shows the execution of a program on Client2. The user enters '2' to select a source for file download. The program displays a table of available files and their sources. The user enters '1' to select the source. The program then displays the download progress and the file path where it was downloaded. Finally, the program prompts the user to enter input for registration or file search.

```
client2@ubuntu: ~/Documents/Complete_final_p2p/p2p_assignment/src/Client2
Look up started at :
2015-09-22 21:36:53.694
Look up ended at :
2015-09-22 21:36:55.271
=====
Sequence Number. Host Address      $HostName
                  1. 192.168.171.132  $ubuntu
=====
Enter sequence number to select source of file to download from.
1
Your file will be down loaded from ubuntu - 192.168.171.132
Download started at :
2015-09-22 21:37:50.988
2000.txt is downloaded at /home/client2/Documents/Complete_final_p2p/p2p_assignment/src/Client2/
Download ended at :
2015-09-22 21:37:51.063
-----
Enter Input as follows.
Press 1 for registration.
Press 2 for file search.
Press any other key to exit.
>
```

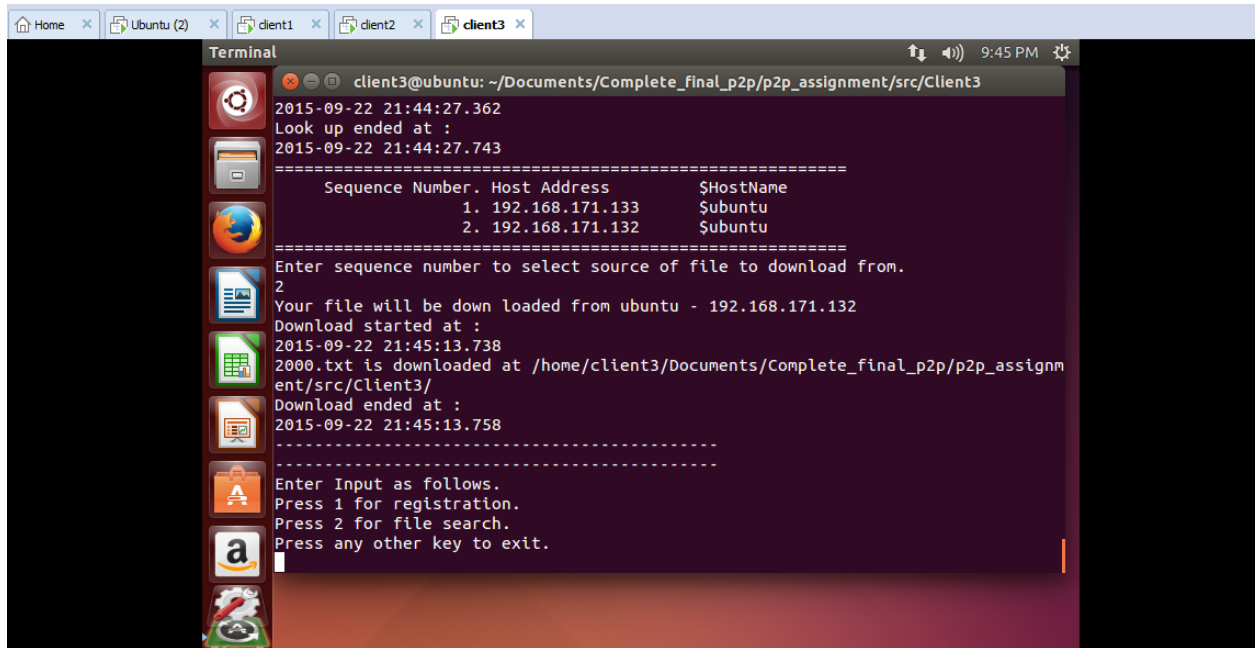
4. Peer3's search.



The terminal window shows the execution of a program on Client3. The user enters '2' to select a source for file download. The program displays a table of available files and their sources. The user enters '1' to select the source. The program then displays the download progress and the file path where it was downloaded. Finally, the program prompts the user to enter input for registration or file search.

```
client3@ubuntu: ~/Documents/Complete_final_p2p/p2p_assignment/src/Client3
=====
Enter sequence number to select source of file to download from.
2
Sorry! Wrong input.
-----
Enter Input as follows.
Press 1 for registration.
Press 2 for file search.
Press any other key to exit.
2
Enter filename:
2000.txt
Look up started at :
2015-09-22 21:44:27.362
Look up ended at :
2015-09-22 21:44:27.743
=====
Sequence Number. Host Address      $HostName
                  1. 192.168.171.133  $ubuntu
                  2. 192.168.171.132  $ubuntu
=====
Enter sequence number to select source of file to download from.
```

5. Peer3's download.



```
client3@ubuntu: ~/Documents/Complete_final_p2p/p2p_assignment/src/Client3
2015-09-22 21:44:27.362
Look up ended at :
2015-09-22 21:44:27.743
=====
Sequence Number. Host Address      $HostName
1. 192.168.171.133      $ubuntu
2. 192.168.171.132      $ubuntu
=====
Enter sequence number to select source of file to download from.
2
Your file will be down loaded from ubuntu - 192.168.171.132
Download started at :
2015-09-22 21:45:13.738
2000.txt is downloaded at /home/client3/Documents/Complete_final_p2p/p2p_assignment/src/Client3/
Download ended at :
2015-09-22 21:45:13.758
-----
Enter Input as follows.
Press 1 for registration.
Press 2 for file search.
Press any other key to exit.
```