Input/output

Starting the servers in the background and executing the peer1 client.

```
ubuntu@ip-172-31-25-36: ~

Using username "ubuntu".
Authenticating with public key "imported-openssh-key"
Welcome to Ubuntu 16.04.2 LTS (GNU/Linux 4.4.0-1035-aws x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:     https://landscape.canonical.com
 * Support:        https://ubuntu.com/advantage

  Get cloud support with Ubuntu Advantage Cloud Guest:
    http://www.ubuntu.com/business/services/cloud

50 packages can be updated.
0 updates are security updates.


Last login: Fri Sep 29 22:05:07 2017 from 208.59.144.84
ubuntu@ip-172-31-25-36:~$ python indexserver.py &
[1] 24069
ubuntu@ip-172-31-25-36:~$ python peer1s.py &
[2] 24070
ubuntu@ip-172-31-25-36:~$ python peer2s.py &
[3] 24071
ubuntu@ip-172-31-25-36:~$ python peer3s.py &
[4] 24072
ubuntu@ip-172-31-25-36:~$ python peer1c.py
Welcome Peer1:
1:Register
2:Search
3:Obtain
```
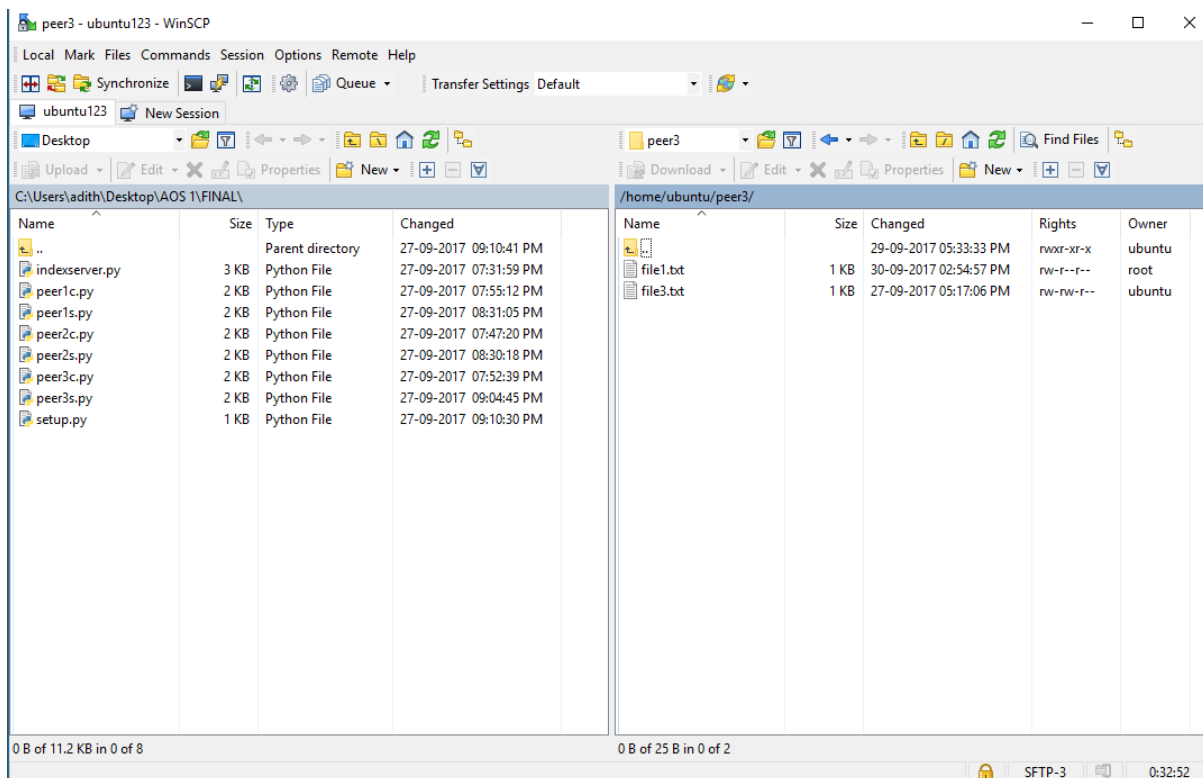
Registering of files from the peer clients (file1.txt has been registered from peer1 and peer2.


```
ubuntu@ip-172-31-25-36: ~
Welcome Peer1:
1:Register
2:Search
3:Obtain
1
Enter file_name and peer_name
file1.txt peer1
Welcome Peer1:
1:Register
2:Search
3:Obtain
1
Enter file_name and peer_name
file2.txt peer1
Welcome Peer1:
1:Register
2:Search
3:Obtain
1
Enter file_name and peer_name
file3.txt peer1
Welcome Peer1:
1:Register
2:Search
3:Obtain
1
Enter file_name and peer_name
file4.txt peer1
Welcome Peer1:
1:Register
2:Search
3:Obtain
```

Searching for file1.txt from the peer2 client.


```
ubuntu@ip-172-31-25-36: ~
file1.txt peer2
Welcome Peer2:
1:Register
2:Search
3:Obtain
1
Enter file_name and peer_name
file3.txt peer2
Welcome Peer2:
1:Register
2:Search
3:Obtain
1
Enter file_name and peer_name
file4.txt peer2
Welcome Peer2:
1:Register
2:Search
3:Obtain
2
please enter file name to search
file1.txt
<type 'str'>
('Files are present in:', 'peer1,peer2')
Welcome Peer2:
1:Register
2:Search
3:Obtain
```

Downloading the file1.txt from peer1 by peer3 client.

The file is present in peer3.