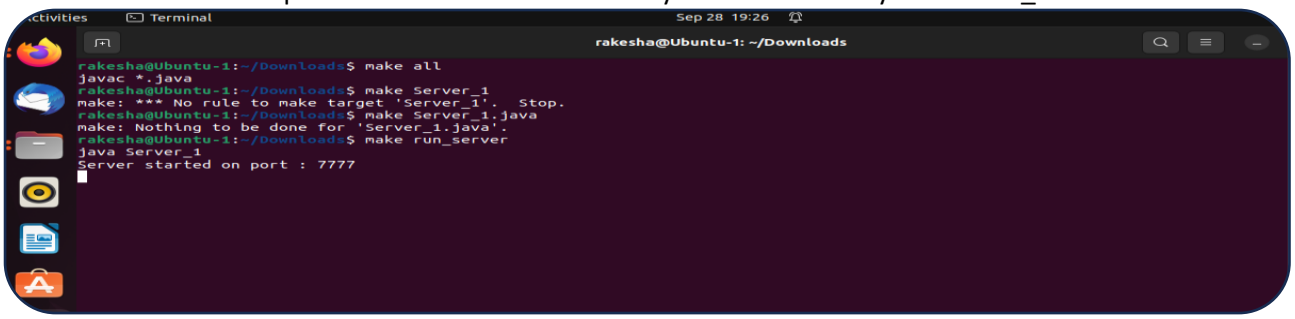
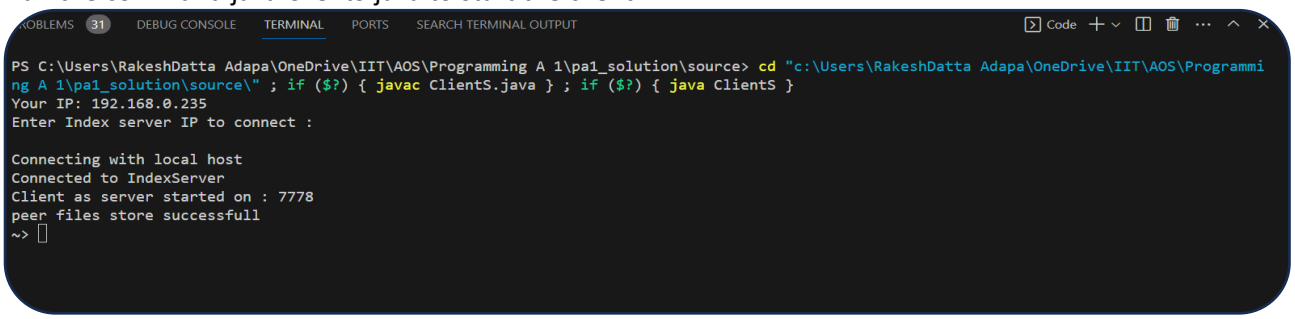
Output - Programming Assignment 1

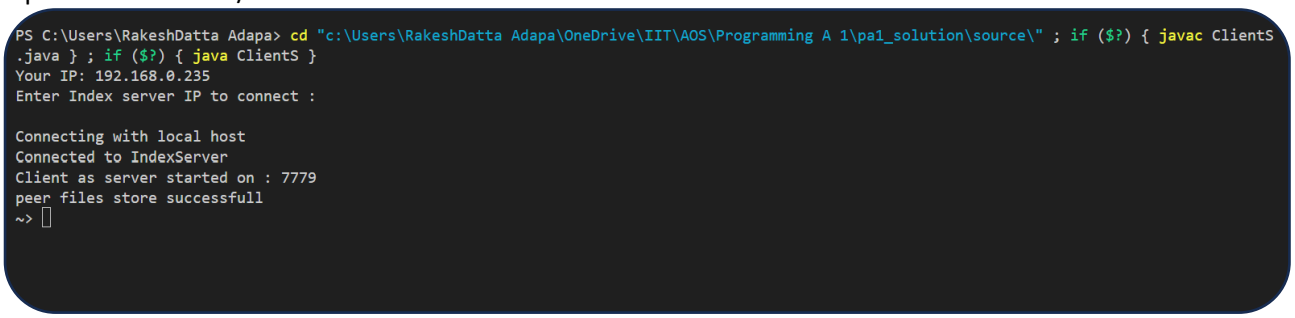
1. Run the programs in the separate terminals with the command : javac Server_1.java to start the server the server is hosted on the port 7777 as it is hard coded or you can also run by “make run_server”



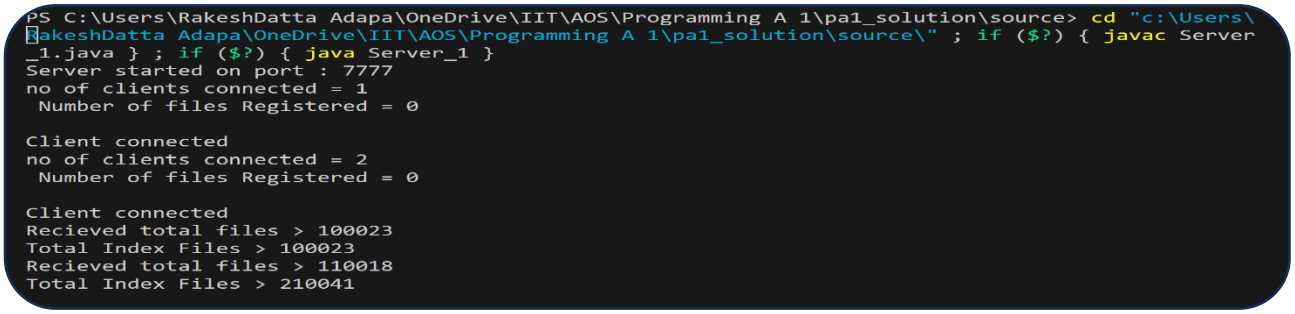
2. Run the command java ClientS.java to start the client



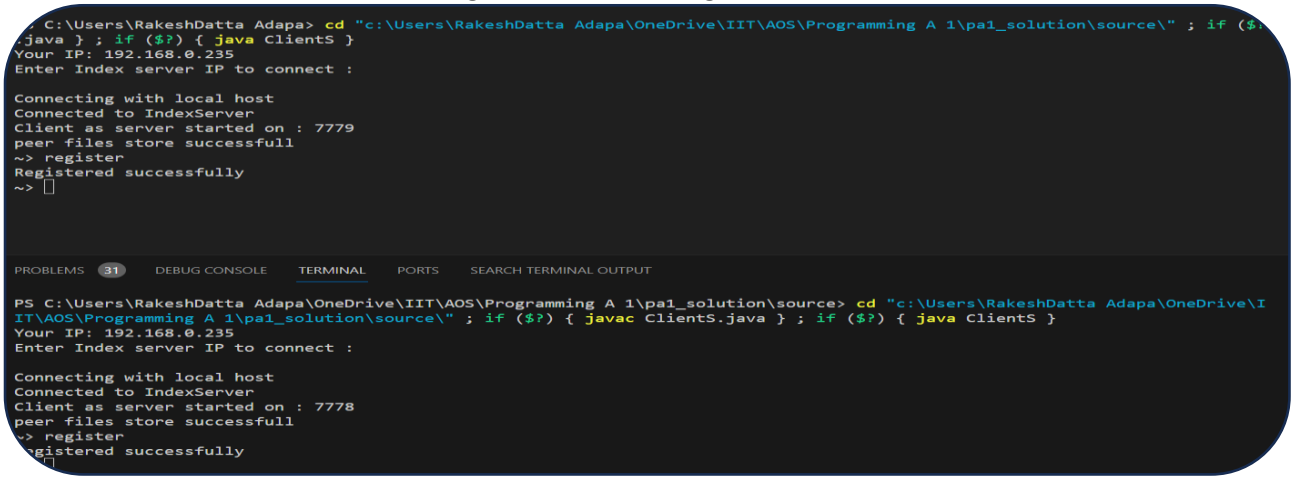
3. Open new Terminal/VM and run the same command to start the second client



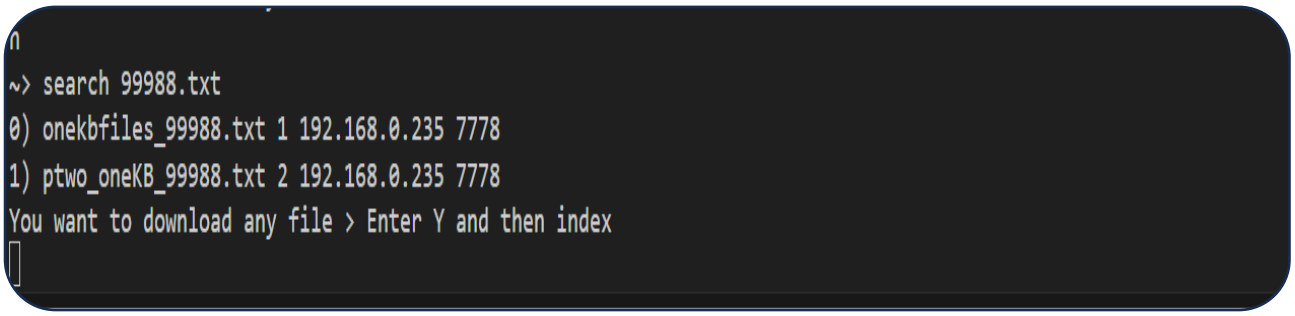
4. Now in the Index server we can see the status of client connections and also server continuously runs for new clients



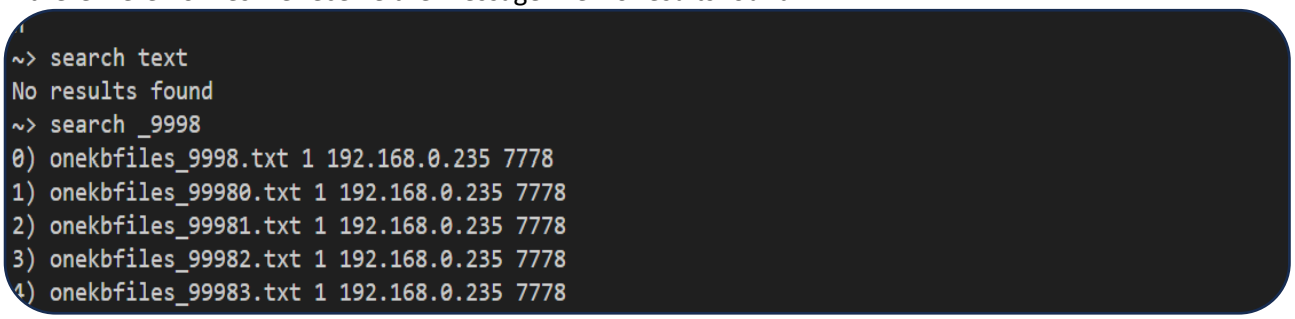
5. Enter the command register in both the terminals to send the meta data of the files to index server. Once the data is sent we will received the message from server as registered.



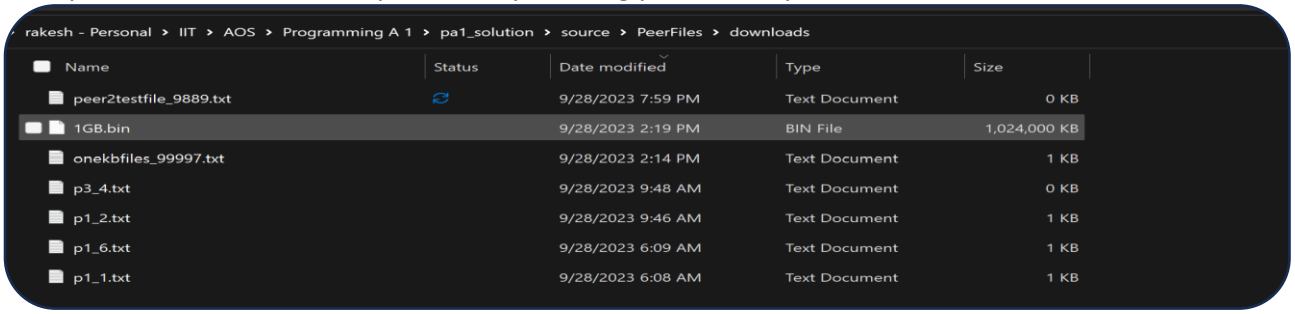
6. Now we can enter the search followed by the file name to send the search query to index server ex: search _.txt and also we get all the required information like port and ipadress of the server that holds the information.



7. If there were no files we receive the message like No results found.



8. Now you also download the required file by entering y followed by the index number



```
earch 9889.txt
 onekbfiles_19889.txt 1 192.168.0.235 7778
) onekbfiles_29889.txt 1 192.168.0.235 7778
2) onekbfiles_39889.txt 1 192.168.0.235 7778
3) onekbfiles_49889.txt 1 192.168.0.235 7778
4) onekbfiles_59889.txt 1 192.168.0.235 7778
5) onekbfiles_69889.txt 1 192.168.0.235 7778
6) onekbfiles_79889.txt 1 192.168.0.235 7778
7) onekbfiles_89889.txt 1 192.168.0.235 7778
8) onekbfiles_9889.txt 1 192.168.0.235 7778
9) onekbfiles_99889.txt 1 192.168.0.235 7778
10) peer2testfile_9889.txt 2 192.168.0.235 7778
11) ptwo_oneKB_19889.txt 2 192.168.0.235 7778
12) ptwo_oneKB_29889.txt 2 192.168.0.235 7778
13) ptwo_oneKB_39889.txt 2 192.168.0.235 7778
14) ptwo_oneKB_49889.txt 2 192.168.0.235 7778
15) ptwo_oneKB_59889.txt 2 192.168.0.235 7778
16) ptwo_oneKB_69889.txt 2 192.168.0.235 7778
17) ptwo_oneKB_79889.txt 2 192.168.0.235 7778
18) ptwo_oneKB_89889.txt 2 192.168.0.235 7778
19) ptwo_oneKB_9889.txt 2 192.168.0.235 7778
20) ptwo_oneKB_99889.txt 2 192.168.0.235 7778
You want to download any file > Enter Y and then index
y
10
Requested file: peer2testfile_9889.txt, has been downloaded to directory: C:\Users\RakeshDatta Adapa\OneDrive\IIT\AOS\Programming A 1\pa1_sol
tion\source\PeerFiles\downloads
splay file peer2testfile_9889.txt
```

9. If you enter any other text it will display as unknown command

```
~> download
Unknown Command
  > Register
  > Search
~>
```

10. Enter end to exit the server connection.

```
~> end
Connection Terminated with server
```