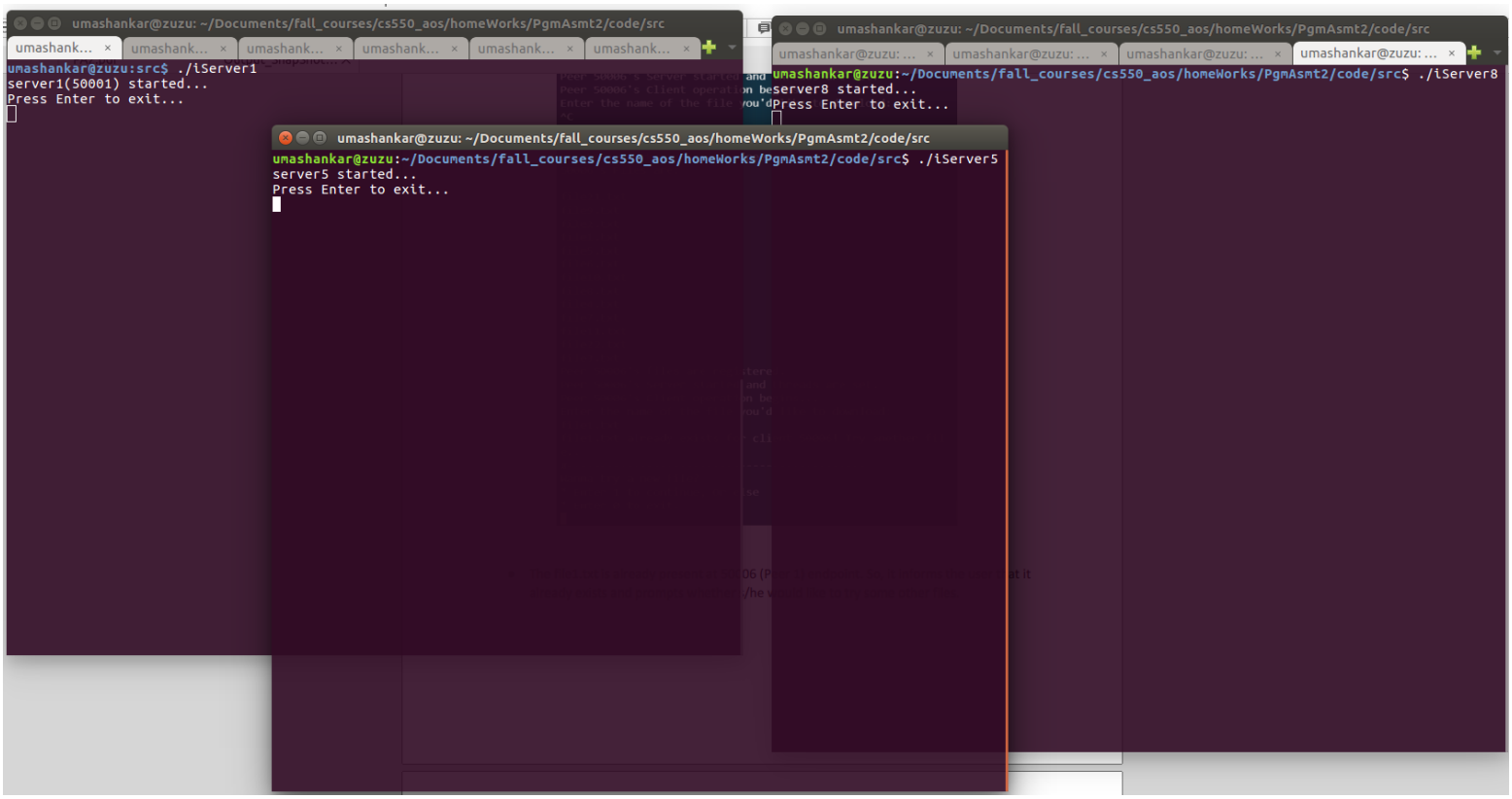
CS 550 Programming Assignment – 2

Umashankar Rajaram A20301260

Output Snapshots for Peer to Peer Network

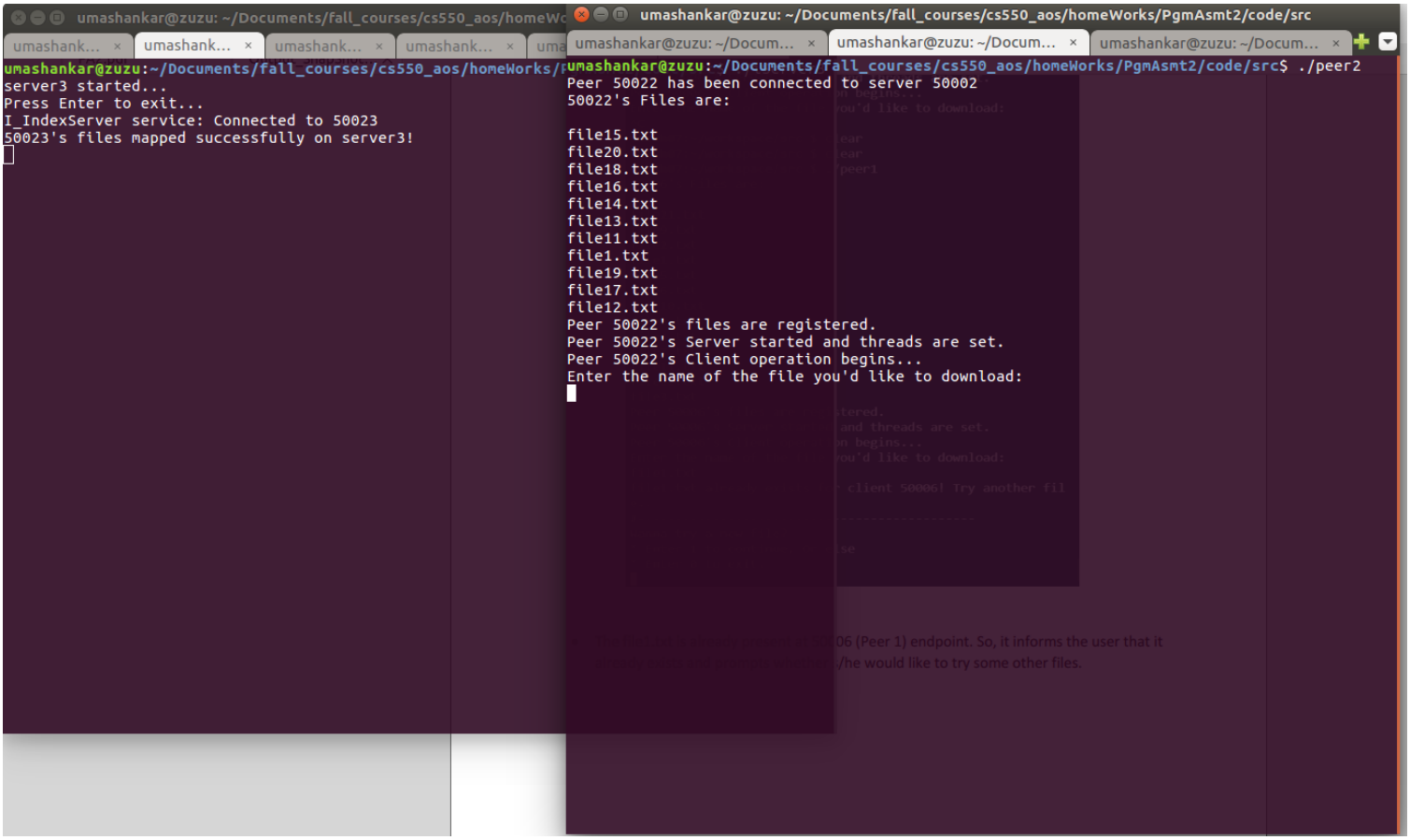
Following are the screenshots taken during the p2p system run:

1) Indexing Servers begin:



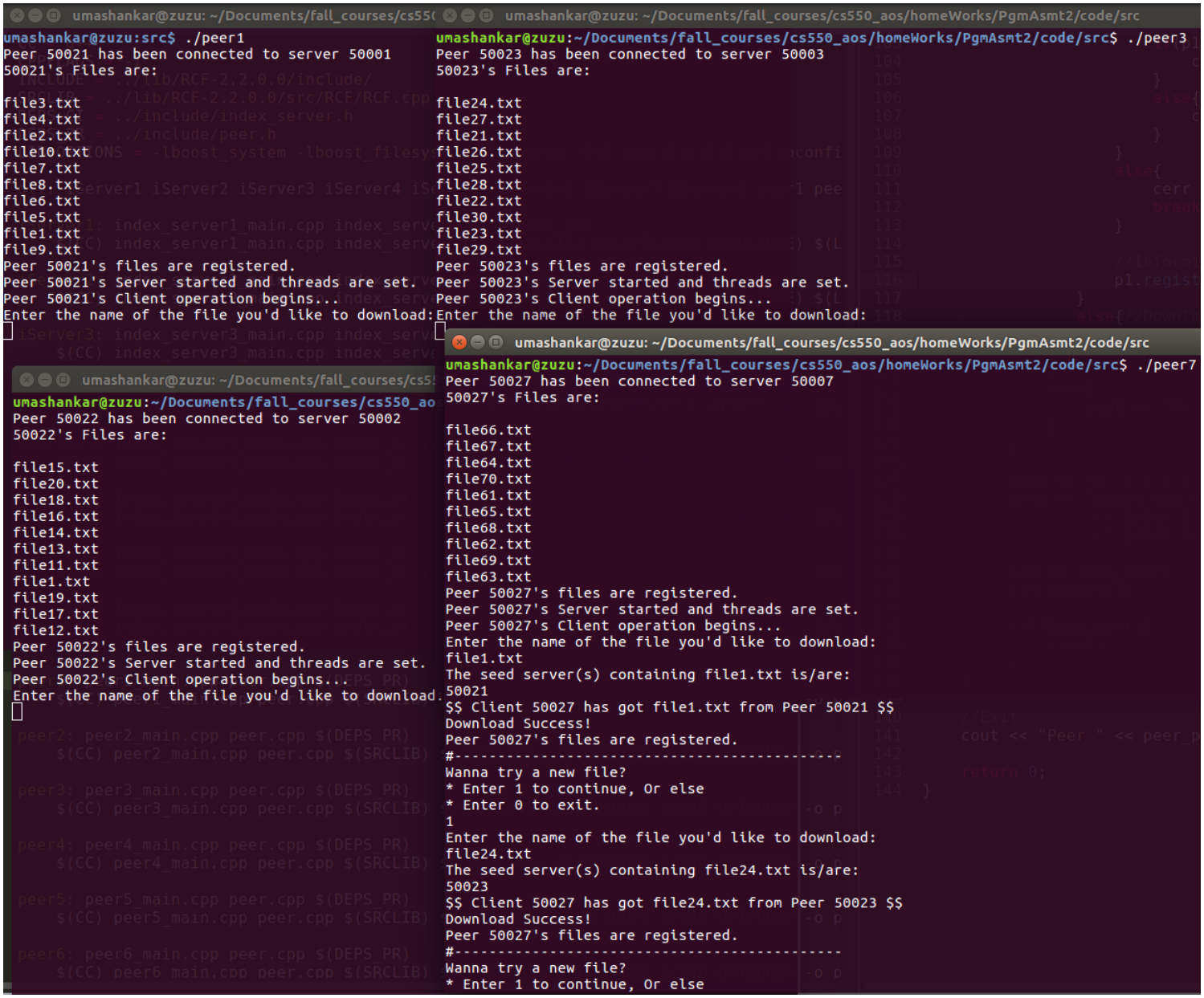
- The picture shows the beginning of Indexing Servers 1, 2 and 8 just when they are executed with their binaries.

2) **Peer 2 registers with the Indexing server:**



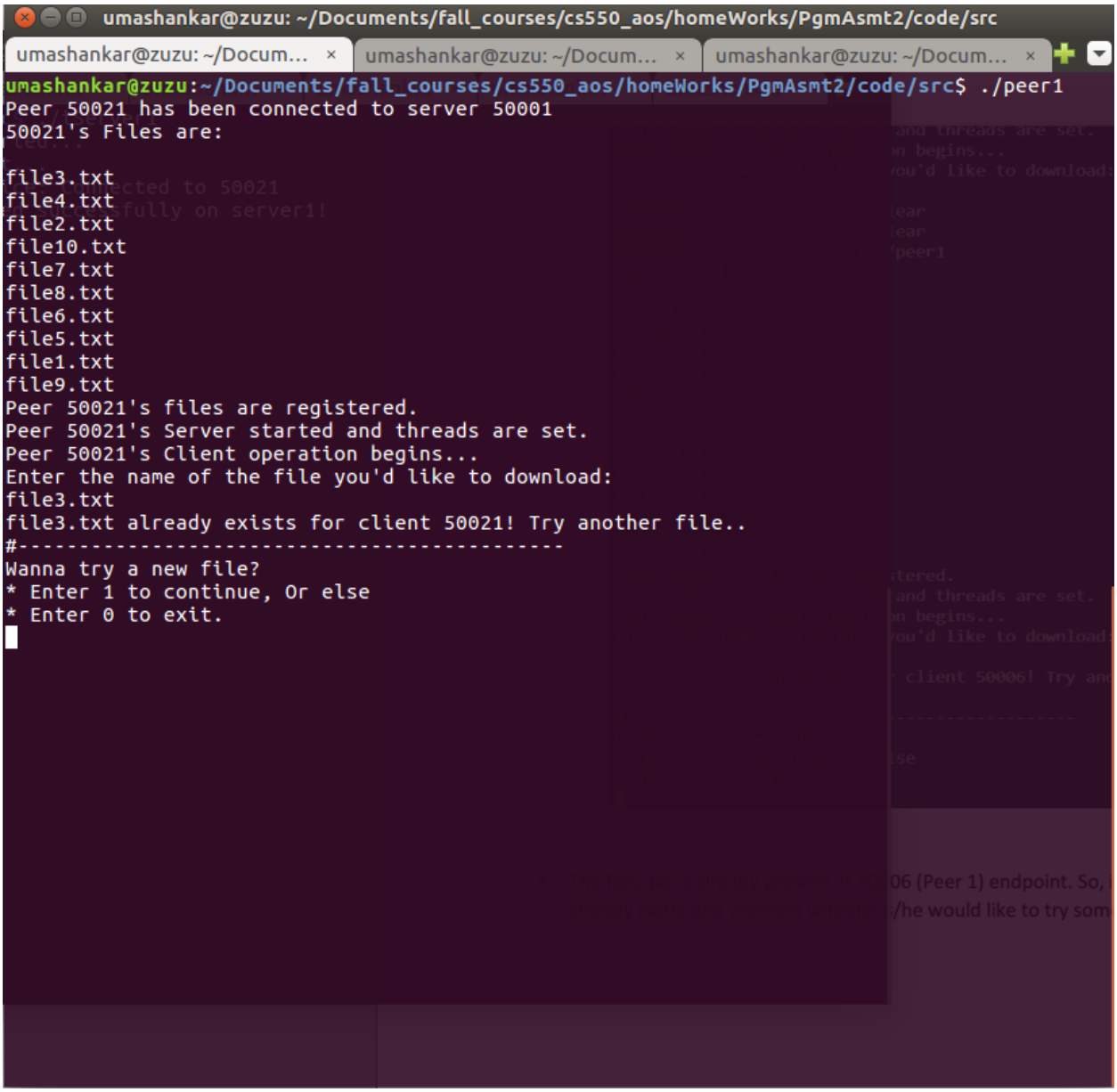
- Now the peer2 (50022) binary gets executed and connects with its nearby server 50002.
- Similarly the Indexing server 3 (50003) acknowledges the connection with its peer (endpoint 50023) and informs that file indexing is successful.
- Peer2 prompts the user to input any filename to search for.

3) **Peer7 gets files from peers 1 and 3:**



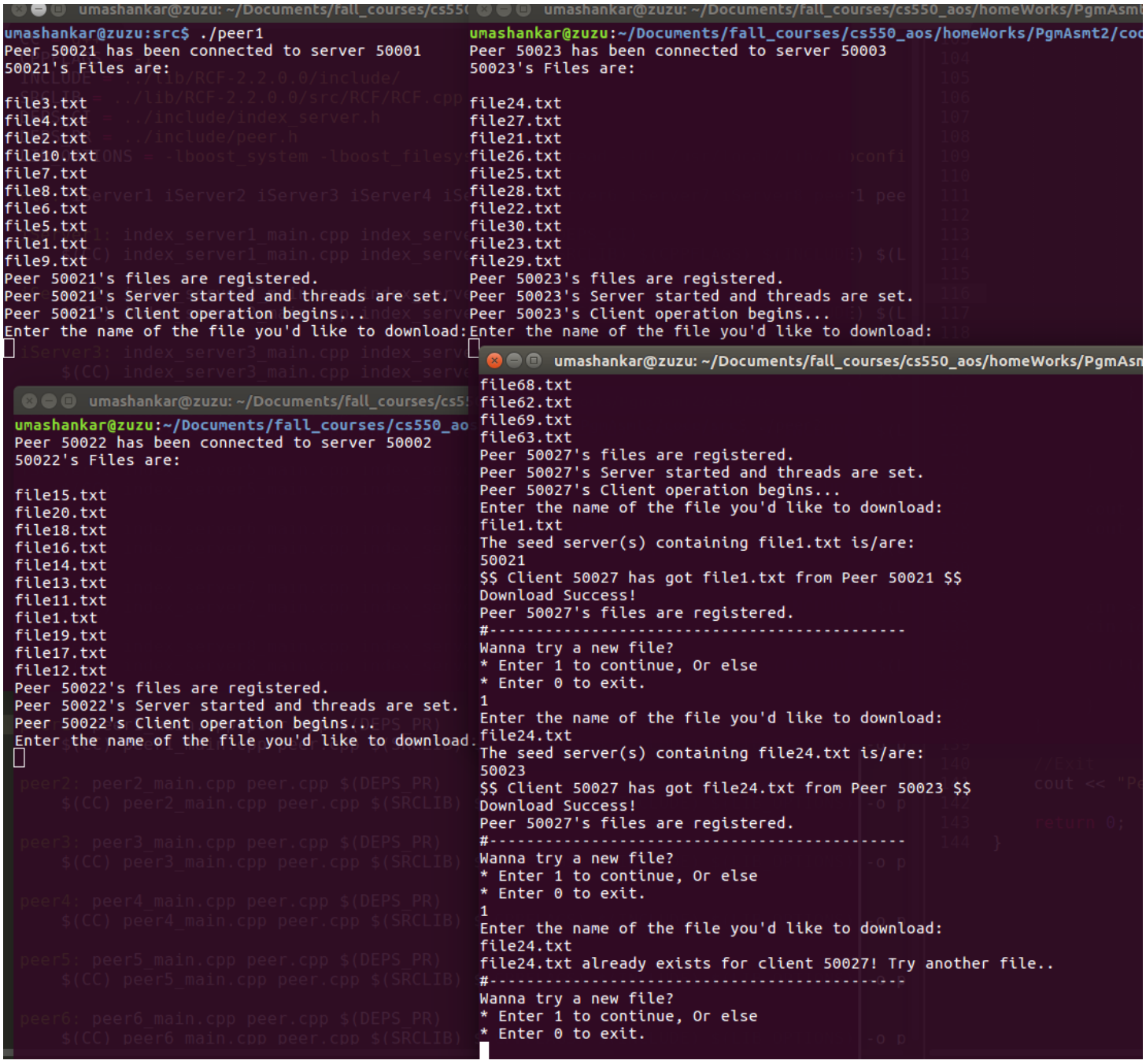
- Peer7 (endpoint 50027) requests file1.txt and file24.txt from the servers and they get downloaded.

4) User at Peer1 window enters a filename (file1.txt) though it already has:



- file1.txt is already present at 50021 (Peer 1) endpoint. So, it informs the user that it already exists and prompts whether s/he would like to try some other files.

5) **Peer7 alerts user that it has just downloaded the required file from the other peer:**



- file24.txt is just before downloaded from the server 50023. So, it alerts the user that it already exists and prompts whether s/he would like to try some other files.