Readme.txt
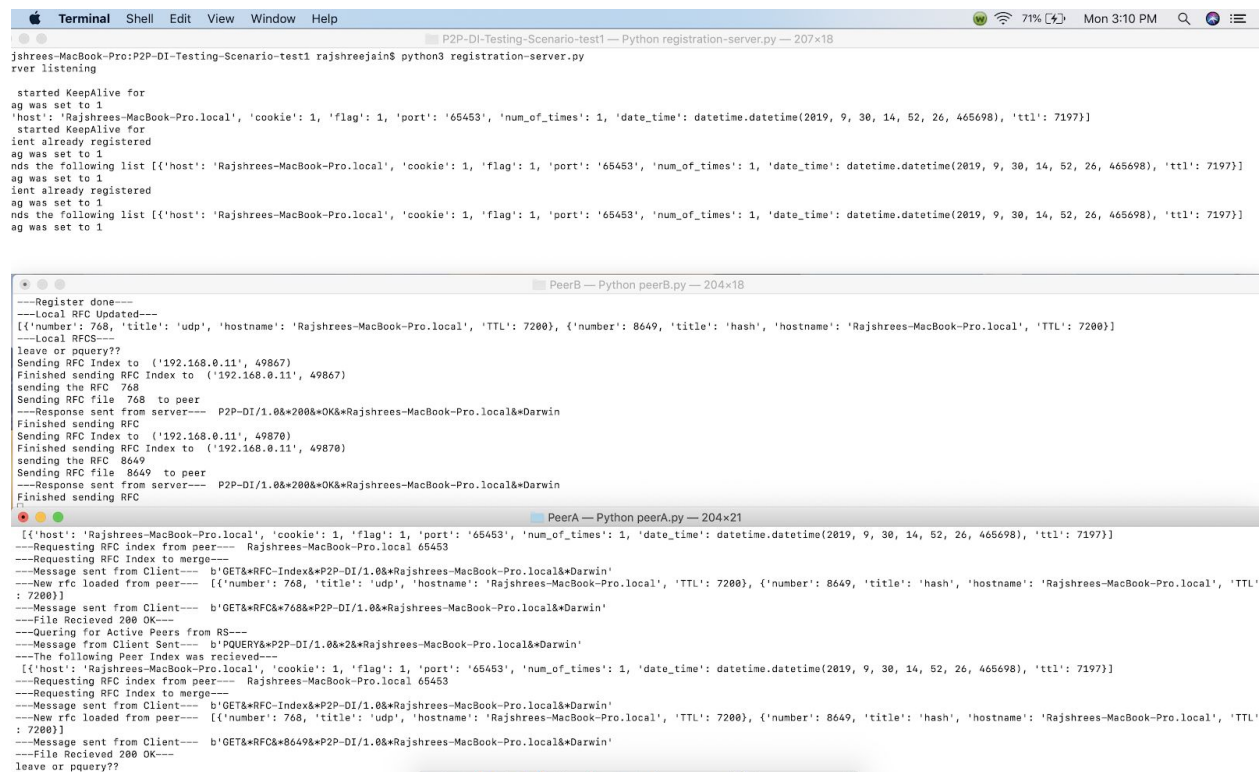
The exact running scenario has been recorded in video with the link below:

[TestScenario](https://drive.google.com/file/d/1BnJbS2XYQwIPV5YPc2ttRCYosMyQNGOC/view?usp=sharing)
<https://drive.google.com/file/d/1BnJbS2XYQwIPV5YPc2ttRCYosMyQNGOC/view?usp=sharing>

1. The code runs with python3.7
2. Create 2 folders, PeerA and PeerB
3. Inside PeerA, paste the peer code (In ours we named it as peerA.py)
4. Inside PeerB, paste the peer code again (In ours we named it as peerB.py)
5. Inside PeerB, add the following 2 files
   1. We named the files accordingly for ease of use, rfc<number>-<title>.txt
   2. Rfc768-udp.txt
   3. Rfc8649-hash.txt
6. Change the need_RFC_list as follows : need_RFC_list = [768]
7. Since we ran in the same machine, we compared the ports to be different hosts
   1. Line 280 in PeerA and PeerB
8. Open up three terminals (since we did in the same machine)
   1. The first terminal, Run the registration server first: python3 registration-server.py
   2. A second terminal, cd PeerB, python3 peerB.py
   3. A third terminal, cd   python3 peerA.py
9. You will see A requesting the file 768 from B and downloading and saving it into its folder.
10. Type 'leave' in PeerB terminal, you can see changes done on terminal containing registration-server
11. Type 'pquery' in PeerA terminal, you can 'No active Peer ' message in A's terminal

Screenshot attached for the entire scenario and message exchanged :

For the experiments,
Almost same as above,
1) Create 6 folders as peer0, peer1, peer2, peer3, peer4, peer5
2) For centralised, put all the files into peer0. Update the `need_RFC_list` in the codes of peer1, peer2, peer3, peer4, peer5.
3) Start the registration-server.py , peer0.py first and then the other peers.
4) You can see the files getting transferred. Apart from that there are 2 other folders createdin each peer index - index.txt and time.txt which contains the local index for each peer and the cumulative time for each peer. This was done for our ease in calculating the test cases.
5) Repeat the same for distributed. This time 10 files in each folder and update the `need_RFC_list` accordingly.