Output of Gnutella P2P transfer

1. Mesh network (3X3)

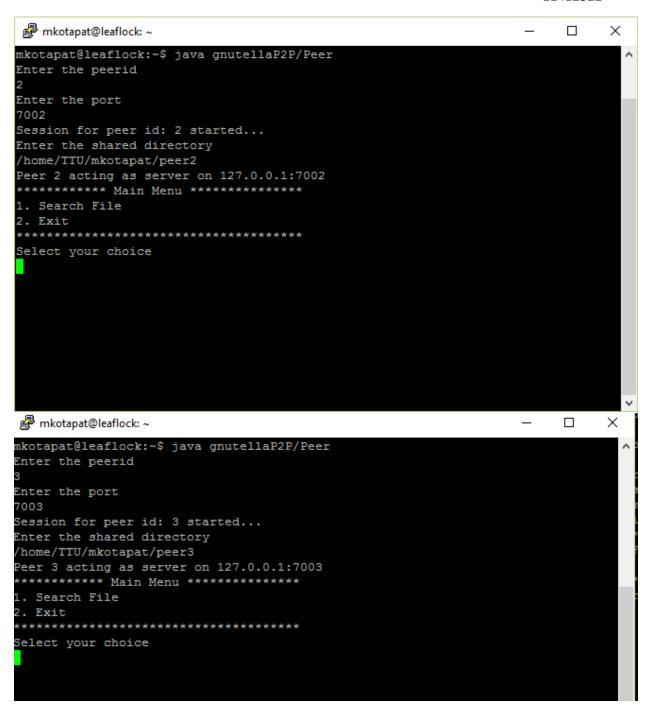
i) Config properties

```
config.properties ×

peerid.7.port=5007
peerid.8.ip=127.0.0.1
peerid.8.port=5008
peerid.9.ip=127.0.0.1
peerid.9.port=5009

# Neighbor details
#3X3 Mesh
peerid.1.neighbors=peerid.2,peerid.4
peerid.2.neighbors=peerid.1,peerid.3,peerid.5
peerid.3.neighbors=peerid.2,peerid.6
peerid.4.neighbors=peerid.2,peerid.6
peerid.5.neighbors=peerid.2,peerid.4,peerid.6,peerid.8
peerid.6.neighbors=peerid.3,peerid.5,peerid.9
peerid.7.neighbors=peerid.4,peerid.8
peerid.8.neighbors=peerid.5,peerid.9
peerid.8.neighbors=peerid.5,peerid.7
peerid.9.neighbors=peerid.6,peerid.8
```

ii) Run 9 peers in separate instances as shown below



mkotapat@leaflock: ~

mkotapat@leaflock: ~

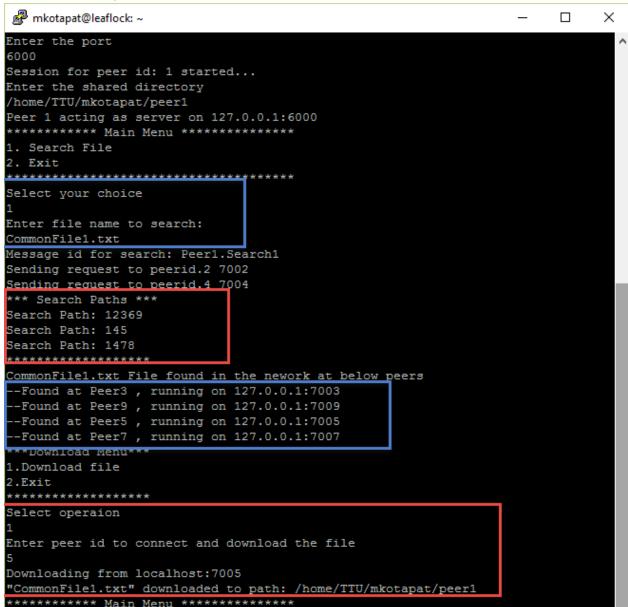
mkotapat@leaflock: ~

mkotapat@leaflock: ~

mkotapat@leaflock: ~

mkotapat@leaflock: ~

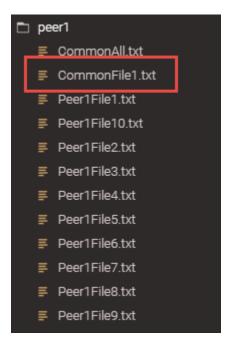
iii) Perform search in peer 1: Search for CommonFile1.txt



Observe the search paths which are done in Mesh network

Search Path: 12369 Search Path: 145 Search Path: 1478

File downloaded to peer1 directory



2. Star network (9 peers)

i) Config properties

```
#6 star network
peerid.1.neighbors=peerid.2,peerid.3,peerid.4,peerid.5,peerid.6,peerid.7,peerid.8,peerid.9
peerid.2.neighbors=peerid.1
peerid.3.neighbors=peerid.1
peerid.5.neighbors=peerid.1
peerid.6.neighbors=peerid.1
peerid.7.neighbors=peerid.1
peerid.8.neighbors=peerid.1
peerid.9.neighbors=peerid.1
```

ii) Run 9 peers as shown above

iii) Perform search in peer 1 for CommonFile1.txt

```
****** Main Menu *******
1. Search File
2. Exit
*********
Select your choice
Enter file name to search:
CommonFile1.txt
Message id for search: Peer1.Search2
Sending request to peerid.2 7002
Sending request to peerid.3 7003
Sending request to peerid.4 7004
Sending request to peerid.5 7005
Sending request to peerid.6 7006
Sending request to peerid.7 7007
Sending request to peerid.8 7008
Sending request to peerid.9 7009
*** Search Paths ***
Search Path: 12
Search Path: 13
Search Path: 14
Search Path: 15
Search Path: 16
Search Path: 17
Search Path: 18
Search Path: 19
CommonFile1.txt File found in the nework at below peers
 --Found at Peer3 , running on 127.0.0.1:7003
--Found at Peer5 , running on 127.0.0.1:7005
--Found at Peer7 , running on 127.0.0.1:7007
--Found at Peer9 , running on 127.0.0.1:7009
 ***Download Menu***
1.Download file
2.Exit
*******
Select operaion
Enter peer id to connect and download the file
Downloading from localhost:7007
"CommonFile1.txt" downloaded to path: /home/TTU/mkotapat/peer1
```

Observe the search paths which are done in star network

Search Path: 12 Search Path: 13 Search Path: 14 Search Path: 15 Search Path: 16 Search Path: 17 Search Path: 18 Search Path: 19

File downloaded to peer1 from peer 7 to folder /home/TTU/mkotapat/peer1

