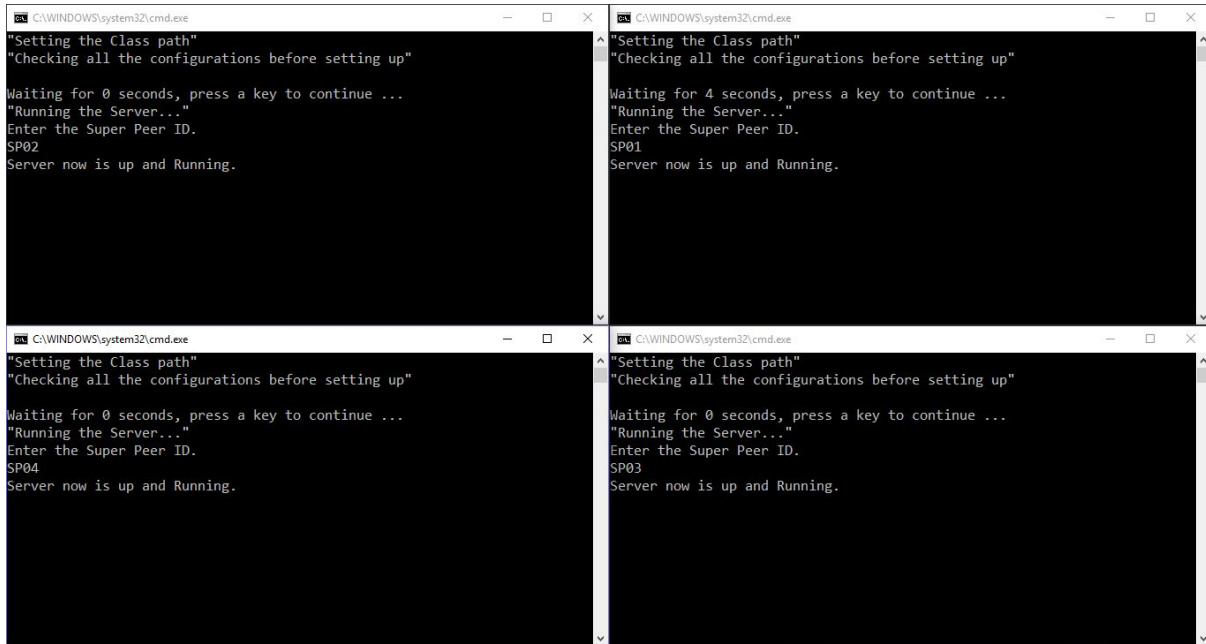


Output file

1. Launching Multiple Super Peer by providing its unique ID

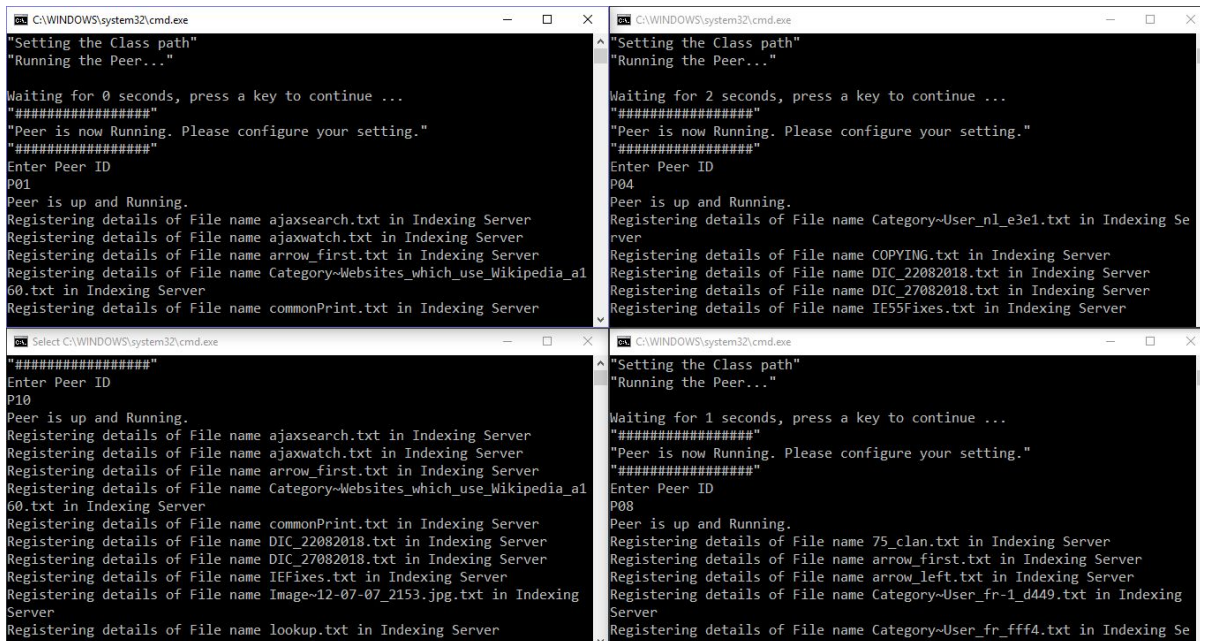


The image displays four terminal windows, each running a command prompt (C:\WINDOWS\system32\cmd.exe). Each window shows the following sequence of operations:

- "Setting the Class path"
- "Checking all the configurations before setting up"
- Waiting for 0 seconds, press a key to continue ...
- "Running the Server..."
- Enter the Super Peer ID.
- SP02 (top-left), SP01 (top-right), SP04 (bottom-left), and SP03 (bottom-right)
- Server now is up and Running.

2. Running Multiple Leaf Nodes under multiple super peers

Here P01 is running under SP01, P04 under SP02, P08 under SP03, and P10 under SP04

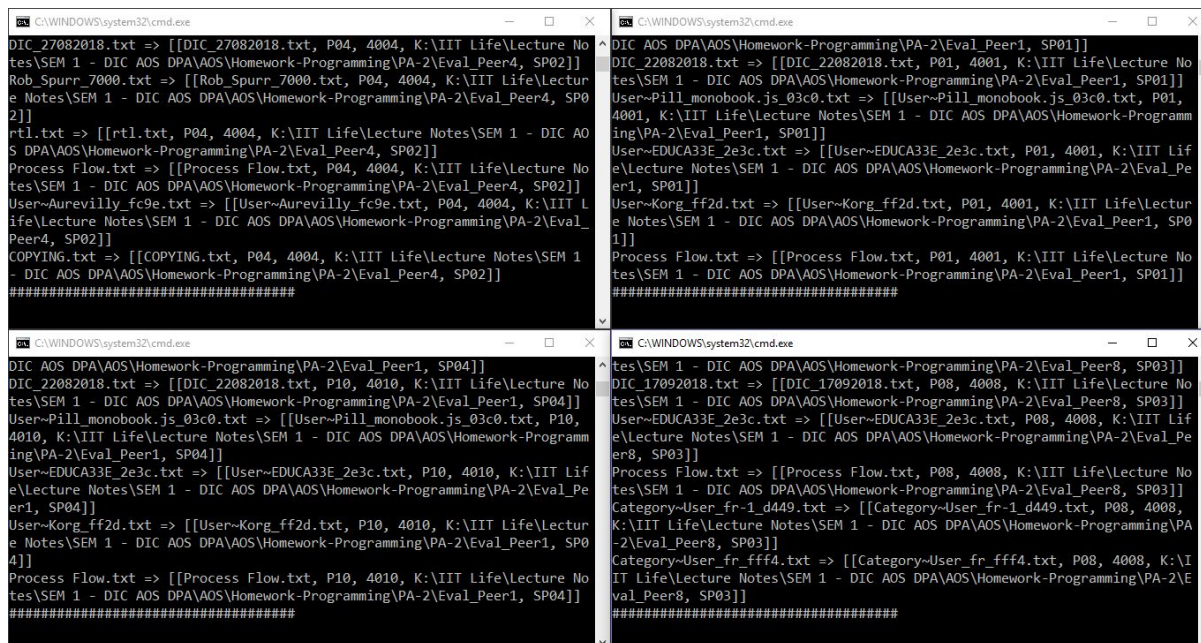


The image displays four terminal windows, each running a command prompt (C:\WINDOWS\system32\cmd.exe). Each window shows the following sequence of operations:

- "Setting the Class path"
- "Running the Peer..."
- Waiting for 0 seconds, press a key to continue ...
- "Peer is now Running. Please configure your setting."
- Enter Peer ID
- P01 (top-left), P04 (top-right), P08 (bottom-left), and P10 (bottom-right)
- Peer is up and Running.
- Registering details of File name [various files] in Indexing Server

Output file

3. Indexing Server while Registration of Peers is going on

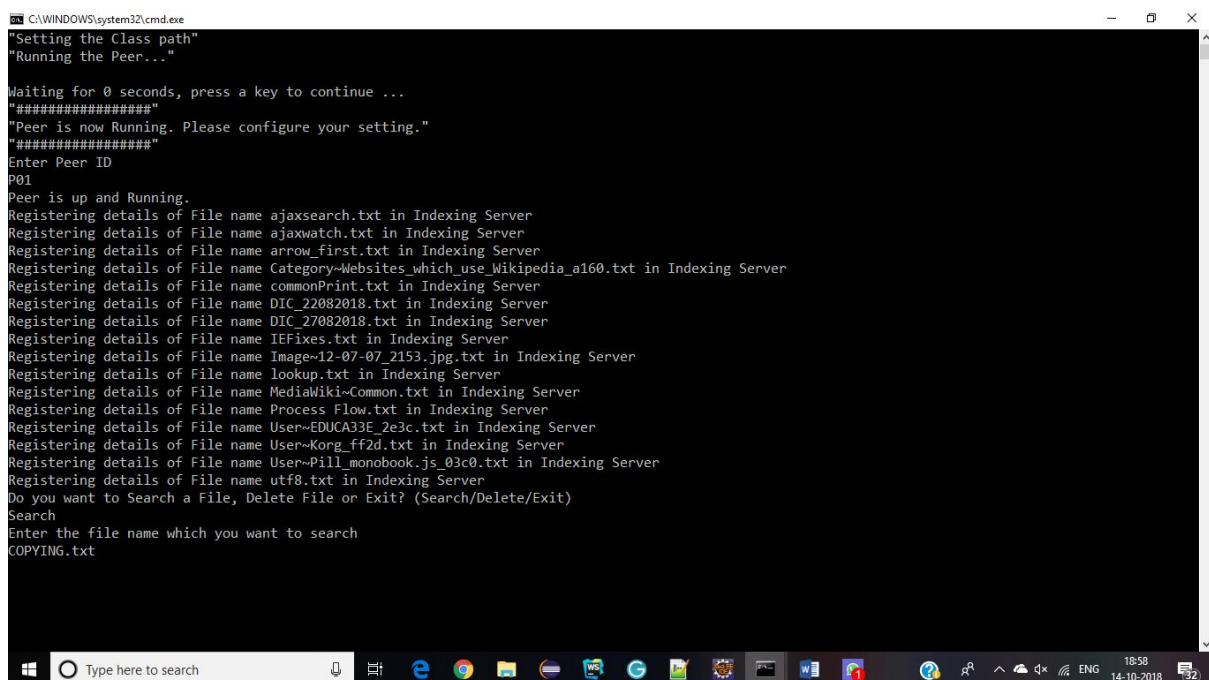


```
DIC_27082018.txt => [[DIC_27082018.txt, P04, 4004, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer4, SP02]]
Rob_Spurr_7000.txt => [[Rob_Spurr_7000.txt, P04, 4004, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer4, SP02]]
rtl.txt => [[rtl.txt, P04, 4004, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer4, SP02]]
Process Flow.txt => [[Process Flow.txt, P04, 4004, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer4, SP02]]
User~Aurevilly_fc9e.txt => [[User~Aurevilly_fc9e.txt, P04, 4004, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer4, SP02]]
COPYING.txt => [[COPYING.txt, P04, 4004, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer4, SP02]]
#####

DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer1, SP04]]
DIC_22082018.txt => [[DIC_22082018.txt, P10, 4010, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer1, SP04]]
User~Pill_monobook.js_03c0.txt => [[User~Pill_monobook.js_03c0.txt, P10, 4010, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer1, SP04]]
User~EDUCA33E_2e3c.txt => [[User~EDUCA33E_2e3c.txt, P10, 4010, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer1, SP04]]
User~Korg_ff2d.txt => [[User~Korg_ff2d.txt, P10, 4010, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer1, SP04]]
Process Flow.txt => [[Process Flow.txt, P10, 4010, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer1, SP04]]
#####

tes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer8, SP03]]
DIC_17092018.txt => [[DIC_17092018.txt, P08, 4008, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer8, SP03]]
User~EDUCA33E_2e3c.txt => [[User~EDUCA33E_2e3c.txt, P08, 4008, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer8, SP03]]
Process Flow.txt => [[Process Flow.txt, P08, 4008, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer8, SP03]]
Category~User_fr-1_d449.txt => [[Category~User_fr-1_d449.txt, P08, 4008, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer8, SP03]]
Category~User_fr_fff4.txt => [[Category~User_fr_fff4.txt, P08, 4008, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer8, SP03]]
#####
```

4. Leaf Node 1 wants to Search a file named "COPYING.txt"



```
"Setting the Class path"
"Running the Peer..."

Waiting for 0 seconds, press a key to continue ...
"#####"
"Peer is now Running. Please configure your setting."
"#####"
Enter Peer ID
P01
Peer is up and Running.
Registering details of File name ajaxsearch.txt in Indexing Server
Registering details of File name ajaxwatch.txt in Indexing Server
Registering details of File name arrow_first.txt in Indexing Server
Registering details of File name Category-Websites which use Wikipedia_a160.txt in Indexing Server
Registering details of File name commonPrint.txt in Indexing Server
Registering details of File name DIC_22082018.txt in Indexing Server
Registering details of File name DIC_27082018.txt in Indexing Server
Registering details of File name IEFixes.txt in Indexing Server
Registering details of File name Image~12-07-07_2153.jpg.txt in Indexing Server
Registering details of File name lookup.txt in Indexing Server
Registering details of File name MediaWiki~Common.txt in Indexing Server
Registering details of File name Process Flow.txt in Indexing Server
Registering details of File name User~EDUCA33E_2e3c.txt in Indexing Server
Registering details of File name User~Korg_ff2d.txt in Indexing Server
Registering details of File name User~Pill_monobook.js_03c0.txt in Indexing Server
Registering details of File name utf8.txt in Indexing Server
Do you want to Search a File, Delete File or Exit? (Search/Delete/Exit)
Search
Enter the file name which you want to search
COPYING.txt
```

Output file

5. Leaf Node P01, P04, P10 under Super Node SP01, SP02, and SP04 respectively are having this file.

```
C:\WINDOWS\system32\cmd.exe
Registering details of File name commonPrint.txt in Indexing Server
Registering details of File name COPYING.txt in Indexing Server
Registering details of File name DIC_22082018.txt in Indexing Server
Registering details of File name DIC_27082018.txt in Indexing Server
Registering details of File name IEFixes.txt in Indexing Server
Registering details of File name Image~12-07-07_2153.jpg.txt in Indexing Server
Registering details of File name lookup.txt in Indexing Server
Registering details of File name MediaWiki~Common.txt in Indexing Server
Registering details of File name Process Flow.txt in Indexing Server
Registering details of File name User~EDUCA33E_2e3c.txt in Indexing Server
Registering details of File name User~Korg_ff2d.txt in Indexing Server
Registering details of File name User~Pill_monobook.js_03c0.txt in Indexing Server
Registering details of File name utf8.txt in Indexing Server
Do you want to Search a File, Delete File or Exit? (Search/Delete/Exit)
Search
Enter the file name which you want to search
COPYING.txt
Now Started Calling the query() from Leaf Node...
this result is going in finalRes [[COPYING.txt, P01, 4001, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer1, SP01]]
this result is going in finalRes [[COPYING.txt, P04, 4004, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer4, SP02]]
this result is going in finalRes [[COPYING.txt, P10, 4010, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer1, SP04]]
#####
Peer providing the file with Peer ID is P01 which is in Super Peer :SP01
Peer providing the file with Peer ID is P04 which is in Super Peer :SP02
Peer providing the file with Peer ID is P10 which is in Super Peer :SP04
#####
Enter Peer ID you wish to take the file from
```

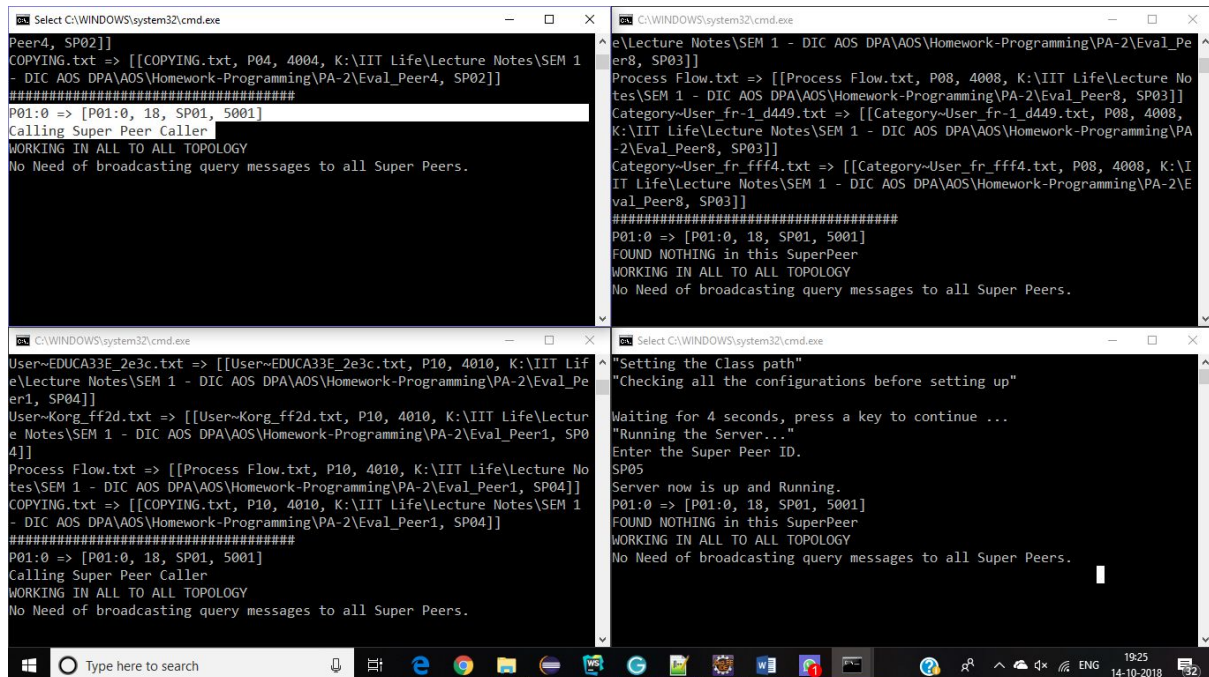
6. While searching, at Super Peers using all to all topology.

At Super Peer SP01

```
C:\WINDOWS\system32\cmd.exe
ajaxsearch.txt => [[ajaxsearch.txt, P01, 4001, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer1, SP01]]
DIC_27082018.txt => [[DIC_27082018.txt, P01, 4001, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer1, SP01]]
commonPrint.txt => [[commonPrint.txt, P01, 4001, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer1, SP01]]
ajaxwatch.txt => [[ajaxwatch.txt, P01, 4001, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer1, SP01]]
IEFixes.txt => [[IEFixes.txt, P01, 4001, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer1, SP01]]
arrow_first.txt => [[arrow_first.txt, P01, 4001, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer1, SP01]]
MediaWiki~Common.txt => [[MediaWiki~Common.txt, P01, 4001, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer1, SP01]]
lookup.txt => [[lookup.txt, P01, 4001, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer1, SP01]]
DIC_22082018.txt => [[DIC_22082018.txt, P01, 4001, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer1, SP01]]
User~Pill_monobook.js_03c0.txt => [[User~Pill_monobook.js_03c0.txt, P01, 4001, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer1, SP01]]
User~EDUCA33E_2e3c.txt => [[User~EDUCA33E_2e3c.txt, P01, 4001, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer1, SP01]]
User~Korg_ff2d.txt => [[User~Korg_ff2d.txt, P01, 4001, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer1, SP01]]
Process Flow.txt => [[Process Flow.txt, P01, 4001, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer1, SP01]]
COPYING.txt => [[COPYING.txt, P01, 4001, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer1, SP01]]
#####
P01:0 => [P01:0, 19, P01, 4001]
Output Send to Leaf Node
WORKING IN ALL TO ALL TOPOLOGY
Total Number of Neighbours in ALL TOPOLOGY : 9
Calling Neighbour SP02 query()
Output Send to Leaf Node
Calling Neighbour SP03 query()
Calling Neighbour SP04 query()
Output Send to Leaf Node
Calling Neighbour SP05 query()
Calling Neighbour SP06 query()
Calling Neighbour SP07 query()
Calling Neighbour SP08 query()
Calling Neighbour SP09 query()
Calling Neighbour SP10 query()
```


Output file

At other Super Peers SP02,SP03,SP04, and so on



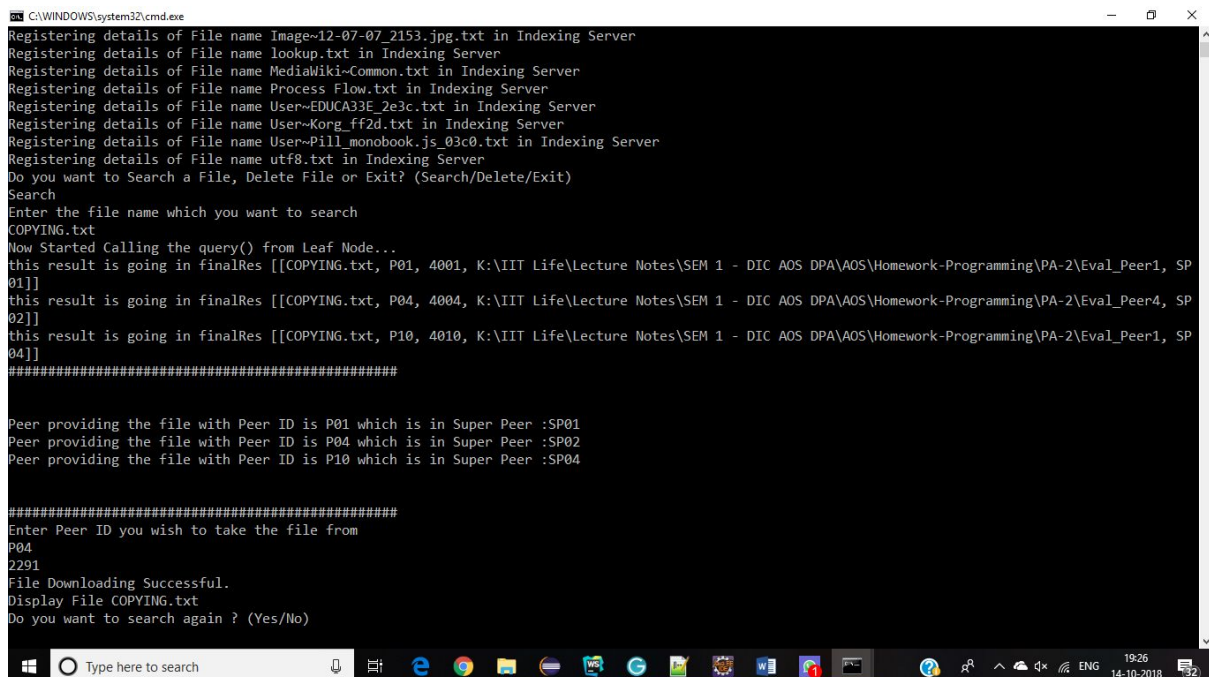
```
Select C:\WINDOWS\system32\cmd.exe
Peer4, SP02]]
COPYING.txt => [[COPYING.txt, P04, 4004, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer4, SP02]]
#####
P01:0 => [P01:0, 18, SP01, 5001]
Calling Super Peer Caller
WORKING IN ALL TO ALL TOPOLOGY
No Need of broadcasting query messages to all Super Peers.

C:\WINDOWS\system32\cmd.exe
e\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer8, SP03]]
Process Flow.txt => [[Process Flow.txt, P08, 4008, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer8, SP03]]
Category-User_fr-1_d449.txt => [[Category-User_fr-1_d449.txt, P08, 4008, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer8, SP03]]
Category-User_fr-fff4.txt => [[Category-User_fr-fff4.txt, P08, 4008, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer8, SP03]]
#####
P01:0 => [P01:0, 18, SP01, 5001]
FOUND NOTHING in this SuperPeer
WORKING IN ALL TO ALL TOPOLOGY
No Need of broadcasting query messages to all Super Peers.

C:\WINDOWS\system32\cmd.exe
User~EDUCA33E_2e3c.txt => [[User~EDUCA33E_2e3c.txt, P10, 4010, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer1, SP04]]
User~Korg_ff2d.txt => [[User~Korg_ff2d.txt, P10, 4010, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer1, SP04]]
Process Flow.txt => [[Process Flow.txt, P10, 4010, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer1, SP04]]
COPYING.txt => [[COPYING.txt, P10, 4010, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer1, SP04]]
#####
P01:0 => [P01:0, 18, SP01, 5001]
Calling Super Peer Caller
WORKING IN ALL TO ALL TOPOLOGY
No Need of broadcasting query messages to all Super Peers.

Select C:\WINDOWS\system32\cmd.exe
"Setting the Class path"
"Checking all the configurations before setting up"
Waiting for 4 seconds, press a key to continue ...
"Running the Server..."
Enter the Super Peer ID.
SP05
Server now is up and Running.
P01:0 => [P01:0, 18, SP01, 5001]
FOUND NOTHING in this SuperPeer
WORKING IN ALL TO ALL TOPOLOGY
No Need of broadcasting query messages to all Super Peers.
```

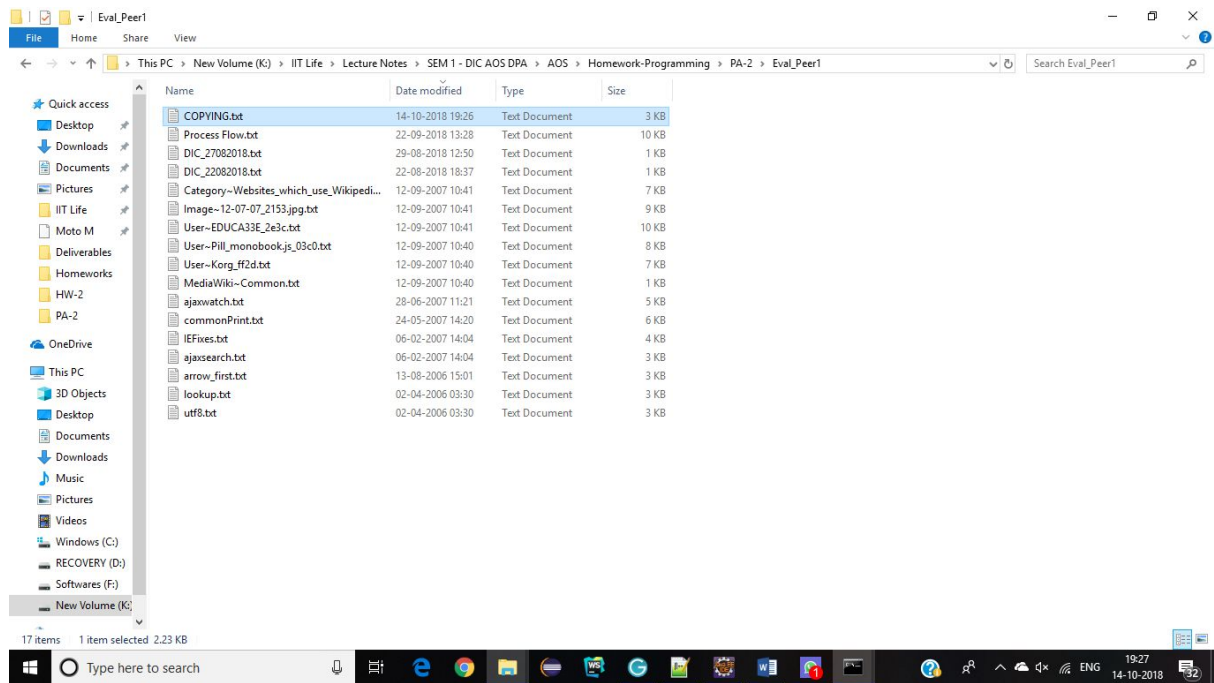
7. Downloading the file from Leaf Node P04. Displaying a message "Display File COPYING.txt". And also asking user whether they want to search again or not?



```
C:\WINDOWS\system32\cmd.exe
Registering details of File name Image~12-07-07_2153.jpg.txt in Indexing Server
Registering details of File name lookup.txt in Indexing Server
Registering details of File name MediaWiki-Common.txt in Indexing Server
Registering details of File name Process Flow.txt in Indexing Server
Registering details of File name User~EDUCA33E_2e3c.txt in Indexing Server
Registering details of File name User~Korg_ff2d.txt in Indexing Server
Registering details of File name User~Pill_monobook.js_03c0.txt in Indexing Server
Registering details of File name utf8.txt in Indexing Server
Do you want to Search a File, Delete File or Exit? (Search/Delete/Exit)
Search
Enter the file name which you want to search
COPYING.txt
Now Started Calling the query() from Leaf Node...
this result is going in finalRes [[COPYING.txt, P01, 4001, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer1, SP01]]
this result is going in finalRes [[COPYING.txt, P04, 4004, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer4, SP02]]
this result is going in finalRes [[COPYING.txt, P10, 4010, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer1, SP04]]
#####
Peer providing the file with Peer ID is P01 which is in Super Peer :SP01
Peer providing the file with Peer ID is P04 which is in Super Peer :SP02
Peer providing the file with Peer ID is P10 which is in Super Peer :SP04
#####
Enter Peer ID you wish to take the file from
P04
2291
File Downloading Successful.
Display File COPYING.txt
Do you want to search again ? (Yes/No)
```

Output file

8. Downloaded file “COPYING.txt” in Leaf Node P01 directory.



9. Leaf Node P05 deletes a file “IE50Fixes.txt”

Output file

```

C:\WINDOWS\system32\cmd.exe
"Setting the Class path"
"Running the Peer..."

Waiting for 2 seconds, press a key to continue ...
#####
"Peer is now Running. Please configure your setting."
#####
Enter Peer ID
P05
Peer is up and Running.
Registering details of File name 75_clan.txt in Indexing Server
Registering details of File name arrow_first.txt in Indexing Server
Registering details of File name arrow_left.txt in Indexing Server
Registering details of File name Category-User_fr-1_d449.txt in Indexing Server
Registering details of File name Category-User_fr_fff4.txt in Indexing Server
Registering details of File name DIC_17092018.txt in Indexing Server
Registering details of File name diff.txt in Indexing Server
Registering details of File name IE50Fixes.txt in Indexing Server
Registering details of File name MediaWiki-Geshi.txt in Indexing Server
Registering details of File name oldshared.txt in Indexing Server
Registering details of File name protect.txt in Indexing Server
Registering details of File name rtl.txt in Indexing Server
Registering details of File name Template-Delete_bfa0.txt in Indexing Server
Registering details of File name User~EDUCA33E_2e3c.txt in Indexing Server
Do you want to Search a File, Delete File or Exit? (Search/Delete/Exit)
Delete
Enter the file name which you want to delete
IE50Fixes.txt
File deleted Successfully.
Do you want to delete more files? (Yes/No)
No
Do you want to Search a File, Delete File or Exit? (Search/Delete/Exit)

```

10. Super Peer updates the Index

```

Select C:\WINDOWS\system32\cmd.exe
rtl.txt => [[rtl.txt, P05, 4005, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer5, SP02]]
arrow_first.txt => [[arrow_first.txt, P05, 4005, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer5, SP02]]
IE50Fixes.txt => [[IE50Fixes.txt, P05, 4005, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer5, SP02]]
arrow_left.txt => [[arrow_left.txt, P05, 4005, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer5, SP02]]
DIC_17092018.txt => [[DIC_17092018.txt, P05, 4005, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer5, SP02]]
User~EDUCA33E_2e3c.txt => [[User~EDUCA33E_2e3c.txt, P05, 4005, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer5, SP02]]
Category-User_fr-1_d449.txt => [[Category-User_fr-1_d449.txt, P05, 4005, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer5, SP02]]
Category-User_fr_fff4.txt => [[Category-User_fr_fff4.txt, P05, 4005, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer5, SP02]]
#####
Index Server Updated & Specified Record Deleted
#####
THE UPDATED INDEX at 2018/10/14 19:34:26
Template-Delete_bfa0.txt => [[Template-Delete_bfa0.txt, P05, 4005, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer5, SP02]]
diff.txt => [[diff.txt, P05, 4005, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer5, SP02]]
oldshared.txt => [[oldshared.txt, P05, 4005, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer5, SP02]]
protect.txt => [[protect.txt, P05, 4005, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer5, SP02]]
75_clan.txt => [[75_clan.txt, P05, 4005, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer5, SP02]]
MediaWiki-Geshi.txt => [[MediaWiki-Geshi.txt, P05, 4005, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer5, SP02]]
]]
rtl.txt => [[rtl.txt, P05, 4005, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer5, SP02]]
arrow_first.txt => [[arrow_first.txt, P05, 4005, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer5, SP02]]
arrow_left.txt => [[arrow_left.txt, P05, 4005, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer5, SP02]]
DIC_17092018.txt => [[DIC_17092018.txt, P05, 4005, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer5, SP02]]
User~EDUCA33E_2e3c.txt => [[User~EDUCA33E_2e3c.txt, P05, 4005, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer5, SP02]]
Category-User_fr-1_d449.txt => [[Category-User_fr-1_d449.txt, P05, 4005, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer5, SP02]]
Category-User_fr_fff4.txt => [[Category-User_fr_fff4.txt, P05, 4005, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\PA-2\Eval_Peer5, SP02]]
#####

```

11. If Leaf Nodes are done with searching and deletion, they can directly enter "Exit" after this prompt.

Output file

```
C:\WINDOWS\system32\cmd.exe
"Setting the Class path"
"Running the Peer..."

Waiting for 2 seconds, press a key to continue ...
"#####"
"Peer is now Running. Please configure your setting."
"#####"
Enter Peer ID
P05
Peer is up and Running.
Registering details of File name 75_clan.txt in Indexing Server
Registering details of File name arrow_first.txt in Indexing Server
Registering details of File name arrow_left.txt in Indexing Server
Registering details of File name Category-User_fr-1_d449.txt in Indexing Server
Registering details of File name Category-User_fr_fff4.txt in Indexing Server
Registering details of File name DIC_17092018.txt in Indexing Server
Registering details of File name diff.txt in Indexing Server
Registering details of File name IE50Fixes.txt in Indexing Server
Registering details of File name MediaWiki-Geshi.txt in Indexing Server
Registering details of File name oldshared.txt in Indexing Server
Registering details of File name protect.txt in Indexing Server
Registering details of File name rtl.txt in Indexing Server
Registering details of File name Template-Delete_bfa0.txt in Indexing Server
Registering details of File name User-EDUCA33E_2e3c.txt in Indexing Server
Do you want to Search a File, Delete File or Exit? (Search/Delete/Exit)
Delete
Enter the file name which you want to delete
IE50Fixes.txt
File deleted Successfully.
Do you want to delete more files? (Yes/No)
No
Do you want to Search a File, Delete File or Exit? (Search/Delete/Exit)
Exit
```

12. Average Search Response Time for a single Client

```
C:\WINDOWS\system32\cmd.exe
"Setting the Class path"
"For Evaluation of Peer to Peer File transferring system, we are running multiple clients at once..."
"Starting to set up all configurations. "

Waiting for 0 seconds, press a key to continue ...
"#####"
"LOAD TESTING of P2P started"
"#####"
Enter the choice for Single Client Evaluation or Multi Client (5 Clients) :
Single
Enter Peer ID
P01
Registering details of File name ajaxsearch.txt in Indexing Server
Registering details of File name ajaxwatch.txt in Indexing Server
Registering details of File name arrow_first.txt in Indexing Server
Registering details of File name Category-Websites_which_use_Wikipedia_a160.txt in Indexing Server
Registering details of File name commonPrint.txt in Indexing Server
Registering details of File name DIC_22082018.txt in Indexing Server
Registering details of File name DIC_27082018.txt in Indexing Server
Registering details of File name IEFixes.txt in Indexing Server
Registering details of File name Image-12-07-07_2153.jpg.txt in Indexing Server
Registering details of File name lookup.txt in Indexing Server
Registering details of File name MediaWiki-Common.txt in Indexing Server
Registering details of File name Process Flow.txt in Indexing Server
Registering details of File name User-EDUCA33E_2e3c.txt in Indexing Server
Registering details of File name User-Korg_ff2d.txt in Indexing Server
Registering details of File name User-Pill_monobook.js_03c0.txt in Indexing Server
Registering details of File name utf8.txt in Indexing Server
start is: 2690666437693824
end is: 2690795278097065
Avg Response time of PeerID P01 is 644.2ms
```