

## Output file

### 1. Server is up and running

```
C:\WINDOWS\system32\cmd.exe
"Setting the Class path"
"Checking all the configurations before setting up"

Waiting for 2 seconds, press a key to continue ...
"Running the Server..."
Server now is up and Running.
```

### 2. Running & Setting up Peer1

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

Waiting for 1 seconds, press a key to continue ...
"#####"
"Peer is now Running. Please configure your setting."
"#####"
Enter the port number on which peer needs to be registered
1001
Enter the directory path
K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer1
Peer is up and Running.
Enter Your Peer ID
Peer1
Registering details of File name Category~User_n1-N_e104.txt in Indexing Server
Registering details of File name COPYING.txt in Indexing Server
Registering details of File name DIC_27082018.txt in Indexing Server
Registering details of File name feed.txt in Indexing Server
Registering details of File name IE60Fixes.txt in Indexing Server
Registering details of File name lookup.txt in Indexing Server
Registering details of File name preview.txt in Indexing Server
Registering details of File name quickbar-right.txt in Indexing Server
Registering details of File name User_talk~Node_ue_c819.txt in Indexing Server
Registering details of File name User~EdmundEzekielMahmudIsa_fe9e.txt in Indexing Server
Registering details of File name Wikipedia~Sandbox_ae3e.txt in Indexing Server
Do you want to Search a File, Delete File or Exit? (Search/Delete/Exit)
```

### 3. Running & Setting up Peer2

```
C:\WINDOWS\system32\cmd.exe
"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 the port number on which peer needs to be registered
1003
Enter the directory path
K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer3
Peer is up and Running.
Enter Your Peer ID
Peer3
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 DIC_22082018.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)
```

### 4. Indexing Server while Registration of Peers is going on

```
C:\WINDOWS\system32\cmd.exe
"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 the port number on which peer needs to be registered
1003
Enter the directory path
K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer3
Peer is up and Running.
Enter Your Peer ID
Peer3
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 DIC_22082018.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)
```

## 5. Indexing Server while Registration of Peers is going on

```
C:\WINDOWS\system32\cmd.exe
#####
THE UPDATED INDEX at 2018/09/23 16:40:53
Template-Delete_bfa0.txt => [[Template-Delete_bfa0.txt, Peer3, 1003, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer3]]
75_clan.txt => [[75_clan.txt, Peer2, 1002, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer2], [75_clan.txt, Peer3, 1003, K:\IIT Life\Lecture
Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer3]]
User_talk-Node_ue_c819.txt => [[User_talk-Node_ue_c819.txt, Peer1, 1001, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer1]]
User~EdmundEzekielMahmudIsa_fe9e.txt => [[User~EdmundEzekielMahmudIsa_fe9e.txt, Peer1, 1001, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer
1]]
DIC_27082018.txt => [[DIC_27082018.txt, Peer1, 1001, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer1], [DIC_27082018.txt, Peer2, 1002, K:\I
IT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer2]]
MediaWiki-Geshi.txt => [[MediaWiki-Geshi.txt, Peer3, 1003, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer3]]
IE60Fixes.txt => [[IE60Fixes.txt, Peer1, 1001, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer1]]
Rob_Spurr_7000.txt => [[Rob_Spurr_7000.txt, Peer2, 1002, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer2]]
User~Aurevilly_fc9e.txt => [[User~Aurevilly_fc9e.txt, Peer2, 1002, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer2]]
arrow_first.txt => [[arrow_first.txt, Peer3, 1003, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer3]]
IE50Fixes.txt => [[IE50Fixes.txt, Peer3, 1003, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer3]]
lookup.txt => [[lookup.txt, Peer1, 1001, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer1]]
sticky.txt => [[sticky.txt, Peer2, 1002, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer2]]
Category-User_n1_e3e1.txt => [[Category-User_n1_e3e1.txt, Peer2, 1002, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer2]]
DIC_17092018.txt => [[DIC_17092018.txt, Peer3, 1003, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer3]]
User~EDUCA33E_2e3c.txt => [[User~EDUCA33E_2e3c.txt, Peer3, 1003, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer3]]
feed.txt => [[feed.txt, Peer1, 1001, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer1]]
quickbar-right.txt => [[quickbar-right.txt, Peer1, 1001, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer1]]
COPYING.txt => [[COPYING.txt, Peer1, 1001, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer1]]
diff.txt => [[diff.txt, Peer3, 1003, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer3]]
oldshared.txt => [[oldshared.txt, Peer3, 1003, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer3]]
protect.txt => [[protect.txt, Peer3, 1003, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer3]]
IE55Fixes.txt => [[IE55Fixes.txt, Peer2, 1002, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer2]]
Special-Categories_101d.txt => [[Special-Categories_101d.txt, Peer2, 1002, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer2]]
Wikipedia~Sandbox_ae3e.txt => [[Wikipedia~Sandbox_ae3e.txt, Peer1, 1001, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer1]]
rtl.txt => [[rtl.txt, Peer2, 1002, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer2], [rtl.txt, Peer3, 1003, K:\IIT Life\Lecture Notes\SEM 1
- DIC AOS DPA\AOS\Homework-Programming\Peer3]]
MediaWiki-Monobook.txt => [[MediaWiki-Monobook.txt, Peer2, 1002, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer2]]
preview.txt => [[preview.txt, Peer1, 1001, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer1]]
arrow_left.txt => [[arrow_left.txt, Peer3, 1003, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer3]]
DIC_22082018.txt => [[DIC_22082018.txt, Peer2, 1002, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer2], [DIC_22082018.txt, Peer3, 1003, K:\I
IT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer3]]
Category-User_n1-N_e104.txt => [[Category-User_n1-N_e104.txt, Peer1, 1001, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer1]]
Process Flow.txt => [[Process Flow.txt, Peer2, 1002, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer2]]
Category-User_fr-1_d449.txt => [[Category-User_fr-1_d449.txt, Peer3, 1003, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer3]]
Category-User_fr-fff4.txt => [[Category-User_fr-fff4.txt, Peer3, 1003, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer3]]
#####
```

## 6. Peer1 wants to Search

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

Waiting for 1 seconds, press a key to continue ...
#####
"Peer is now Running. Please configure your setting."
#####
Enter the port number on which peer needs to be registered
1001
Enter the directory path
K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer1
Peer is up and Running.
Enter Your Peer ID
Peer1
Registering details of File name Category-User_n1-N_e104.txt in Indexing Server
Registering details of File name COPYING.txt in Indexing Server
Registering details of File name DIC_27082018.txt in Indexing Server
Registering details of File name feed.txt in Indexing Server
Registering details of File name IE60Fixes.txt in Indexing Server
Registering details of File name lookup.txt in Indexing Server
Registering details of File name preview.txt in Indexing Server
Registering details of File name quickbar-right.txt in Indexing Server
Registering details of File name User_talk~Node_ue_c819.txt in Indexing Server
Registering details of File name User~EdmundEzekielMahmudIsa_fe9e.txt in Indexing Server
Registering details of File name Wikipedia~Sandbox_ae3e.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
-
```

## 7. Peer1 is searching for file "arrow\_left.txt" and Peer3 is having this file.



```

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

Waiting for 1 seconds, press a key to continue ...
"#####"
"Peer is now Running. Please configure your setting."
"#####"
Enter the port number on which peer needs to be registered
1001
Enter the directory path
K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer1
Peer is up and Running.
Enter Your Peer ID
Peer1
Registering details of File name Category~User_n1-N_e104.txt in Indexing Server
Registering details of File name COPYING.txt in Indexing Server
Registering details of File name DIC_27082018.txt in Indexing Server
Registering details of File name feed.txt in Indexing Server
Registering details of File name IE60Fixes.txt in Indexing Server
Registering details of File name lookup.txt in Indexing Server
Registering details of File name preview.txt in Indexing Server
Registering details of File name quickbar-right.txt in Indexing Server
Registering details of File name User_talk~Node_ue_c819.txt in Indexing Server
Registering details of File name User~EdmundEzekielMahmudIsa_fe9e.txt in Indexing Server
Registering details of File name Wikipedia~Sandbox_ae3e.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
arrow_left.txt
Peer providing the file with Peer ID is Peer3
Enter Peer ID you wish to take the file from

```

8. Downloading the file from specified Peer i.e. Peer3. Displaying a message "Display File arrow\_left.txt". And also asking user whether they want to search again or not?

```

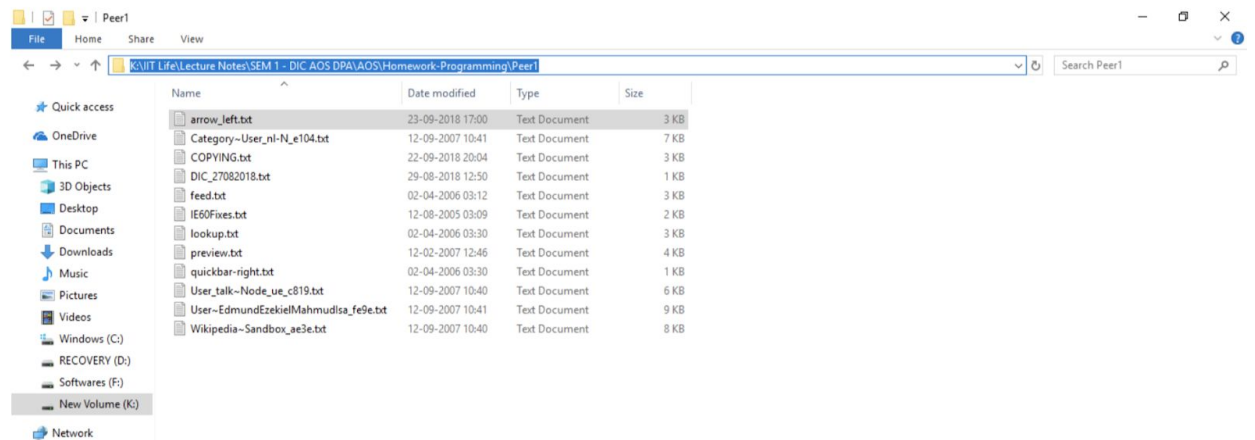
C:\WINDOWS\system32\cmd.exe
Waiting for 1 seconds, press a key to continue ...
"#####"
"Peer is now Running. Please configure your setting."
"#####"
Enter the port number on which peer needs to be registered
1001
Enter the directory path
K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer1
Peer is up and Running.
Enter Your Peer ID
Peer1
Registering details of File name Category~User_n1-N_e104.txt in Indexing Server
Registering details of File name COPYING.txt in Indexing Server
Registering details of File name DIC_27082018.txt in Indexing Server
Registering details of File name feed.txt in Indexing Server
Registering details of File name IE60Fixes.txt in Indexing Server
Registering details of File name lookup.txt in Indexing Server
Registering details of File name preview.txt in Indexing Server
Registering details of File name quickbar-right.txt in Indexing Server
Registering details of File name User_talk~Node_ue_c819.txt in Indexing Server
Registering details of File name User~EdmundEzekielMahmudIsa_fe9e.txt in Indexing Server
Registering details of File name Wikipedia~Sandbox_ae3e.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
arrow_left.txt
Peer providing the file with Peer ID is Peer3
Enter Peer ID you wish to take the file from
Peer3
2581
File Downloading Successful.
Display File arrow_left.txt
Do you want to search again ? (Yes/No)

```

9. After downloading the file from Peer 3, Peer 1 will automatically update the Index Server.

```
Select C:\WINDOWS\system32\cmd.exe
#####
THE UPDATED INDEX at 2018/09/23 16:40:53
Template-Delete_bfa0.txt => [[Template-Delete_bfa0.txt, Peer3, 1003, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer3]]
75_clan.txt => [[75_clan.txt, Peer2, 1002, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer2], [75_clan.txt, Peer3, 1003, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer3]]
User-talk-Node_ue_c819.txt => [[User-talk-Node_ue_c819.txt, Peer1, 1001, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer1]]
User-EdmundEzekielMahmudisa_fe9e.txt => [[User-EdmundEzekielMahmudisa_fe9e.txt, Peer1, 1001, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer1]]
DIC_27082018.txt => [[DIC_27082018.txt, Peer1, 1001, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer1], [DIC_27082018.txt, Peer2, 1002, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer2]]
MediaWiki-Geshi.txt => [[MediaWiki-Geshi.txt, Peer3, 1003, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer3]]
IE60Fixes.txt => [[IE60Fixes.txt, Peer1, 1001, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer1]]
Rob_Spurr_7000.txt => [[Rob_Spurr_7000.txt, Peer2, 1002, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer2]]
User-Aurevilly_fc9e.txt => [[User-Aurevilly_fc9e.txt, Peer2, 1002, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer2]]
arrow_first.txt => [[arrow_first.txt, Peer3, 1003, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer3]]
IE50Fixes.txt => [[IE50Fixes.txt, Peer3, 1003, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer3]]
lookup.txt => [[lookup.txt, Peer1, 1001, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer1]]
sticky.txt => [[sticky.txt, Peer2, 1002, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer2]]
Category-User_n1_e3e1.txt => [[Category-User_n1_e3e1.txt, Peer2, 1002, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer2]]
DIC_17092018.txt => [[DIC_17092018.txt, Peer3, 1003, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer3]]
User-EDUCA33E_2e3c.txt => [[User-EDUCA33E_2e3c.txt, Peer3, 1003, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer3]]
feed.txt => [[feed.txt, Peer1, 1001, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer1]]
quickbar-right.txt => [[quickbar-right.txt, Peer1, 1001, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer1]]
COPYING.txt => [[COPYING.txt, Peer1, 1001, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer1]]
diff.txt => [[diff.txt, Peer3, 1003, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer3]]
oldshared.txt => [[oldshared.txt, Peer3, 1003, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer3]]
protect.txt => [[protect.txt, Peer3, 1003, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer3]]
IE55Fixes.txt => [[IE55Fixes.txt, Peer2, 1002, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer2]]
Special-Categories_101d.txt => [[Special-Categories_101d.txt, Peer2, 1002, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer2]]
wikipedia-Sandbox_ae3e.txt => [[wikipedia-Sandbox_ae3e.txt, Peer1, 1001, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer1]]
rtl.txt => [[rtl.txt, Peer2, 1002, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer2], [rtl.txt, Peer3, 1003, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer3]]
MediaWiki-Monobook.txt => [[MediaWiki-Monobook.txt, Peer2, 1002, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer2]]
preview.txt => [[preview.txt, Peer1, 1001, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer1]]
arrow_left.txt => [[arrow_left.txt, Peer3, 1003, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer3], [arrow_left.txt, Peer1, 1001, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer1]]
DIC_22082018.txt => [[DIC_22082018.txt, Peer2, 1002, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer2], [DIC_22082018.txt, Peer3, 1003, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer3]]
Category-User_n1-N_e104.txt => [[Category-User_n1-N_e104.txt, Peer1, 1001, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer1]]
Process_Flow.txt => [[Process_Flow.txt, Peer2, 1002, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer2]]
Category-User_fr-1_d449.txt => [[Category-User_fr-1_d449.txt, Peer3, 1003, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer3]]
Category-User_fr_fff4.txt => [[Category-User_fr_fff4.txt, Peer3, 1003, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer3]]
#####
```

10. Downloaded file “arrow\_left.txt” in Peer 1 directory.





11. Peer 2 wants to delete a file "75\_clan.txt" from its own directory. And asking user whether they want to delete another file.

```
C:\WINDOWS\system32\cmd.exe
"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 the port number on which peer needs to be registered
1002
Enter the directory path
K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer2
Peer is up and Running.
Enter Your Peer ID
Peer2
Registering details of File name 75_clan.txt in Indexing Server
Registering details of File name Category~User_n1_e3e1.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 IE55Fixes.txt in Indexing Server
Registering details of File name MediaWiki-Monobook.txt in Indexing Server
Registering details of File name Process Flow.txt in Indexing Server
Registering details of File name Rob_Spurr_7000.txt in Indexing Server
Registering details of File name rtl.txt in Indexing Server
Registering details of File name Special~Categories_101d.txt in Indexing Server
Registering details of File name sticky.txt in Indexing Server
Registering details of File name User~Aurevilly_fc9e.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
75_clan.txt
File deleted Successfully.
Do you want to delete more files? (Yes/No)

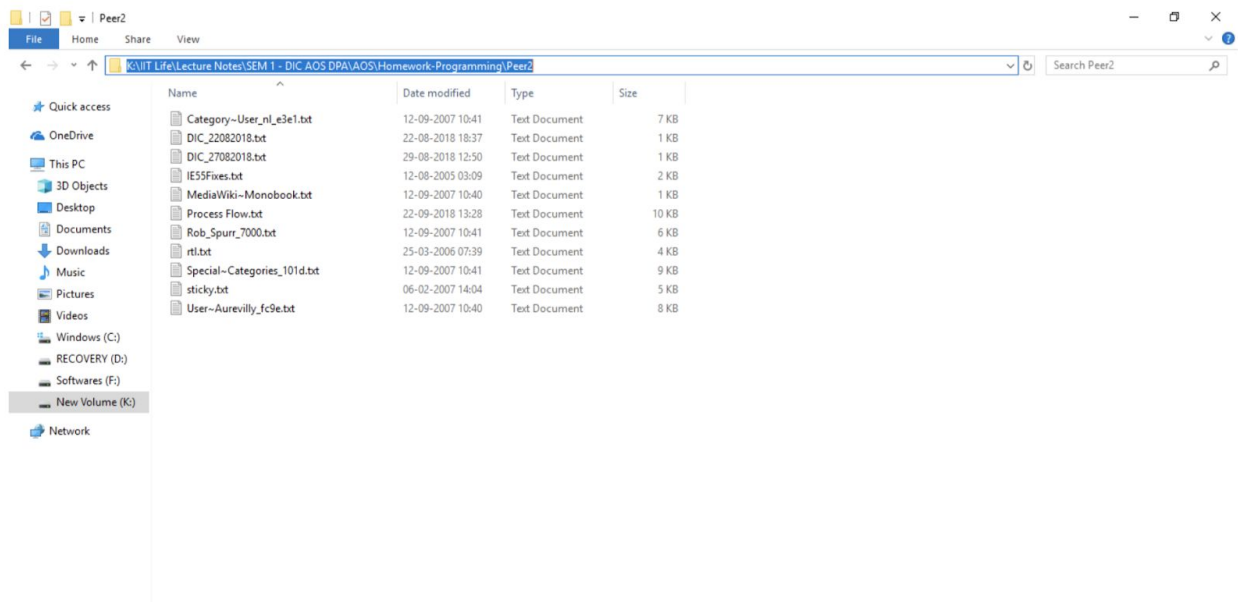
```

12. After deleting a file, Peer 2 will automatically update the Index Server.

```
Select C:\WINDOWS\system32\cmd.exe
#####
Index Server Updated & Specified Record Deleted
#####
THE UPDATED INDEX at 2018/09/23 16:40:53
Template-Delete bf0.txt, Peer3, 1003, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer3]]
75_clan.txt -> [[75_clan.txt, Peer3, 1003, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer3]]
User-talk-Node_ue_c819.txt -> [[User-talk-Node_ue_c819.txt, Peer1, 1001, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer1]]
User-EdmundEzekielMahmudIsa_fe9e.txt -> [[User-EdmundEzekielMahmudIsa_fe9e.txt, Peer1, 1001, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer1]]
DIC_27082018.txt -> [[DIC_27082018.txt, Peer1, 1001, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer1], [DIC_27082018.txt, Peer2, 1002, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer2]]
MediaWiki-Geshi.txt -> [[MediaWiki-Geshi.txt, Peer3, 1003, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer3]]
IE60Fixes.txt -> [[IE60Fixes.txt, Peer1, 1001, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer1]]
Rob_Spurr_7000.txt -> [[Rob_Spurr_7000.txt, Peer2, 1002, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer2]]
User-Aurevilly_fc9e.txt -> [[User-Aurevilly_fc9e.txt, Peer2, 1002, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer2]]
arrow_first.txt -> [[arrow_first.txt, Peer3, 1003, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer3]]
IE50Fixes.txt -> [[IE50Fixes.txt, Peer3, 1003, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer3]]
lookup.txt -> [[lookup.txt, Peer1, 1001, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer1]]
sticky.txt -> [[sticky.txt, Peer2, 1002, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer2]]
Category-User_n1_e3e1.txt -> [[Category-User_n1_e3e1.txt, Peer2, 1002, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer2]]
DIC_17092018.txt -> [[DIC_17092018.txt, Peer3, 1003, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer3]]
User-EDUCA33E_2e3c.txt -> [[User-EDUCA33E_2e3c.txt, Peer3, 1003, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer3]]
feed.txt -> [[feed.txt, Peer1, 1001, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer1]]
quickbar-right.txt -> [[quickbar-right.txt, Peer1, 1001, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer1]]
COPYING.txt -> [[COPYING.txt, Peer1, 1001, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer1]]
diff.txt -> [[diff.txt, Peer3, 1003, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer3]]
oldshared.txt -> [[oldshared.txt, Peer3, 1003, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer3]]
protect.txt -> [[protect.txt, Peer3, 1003, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer3]]
IE55Fixes.txt -> [[IE55Fixes.txt, Peer2, 1002, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer2]]
Special-Categories_101d.txt -> [[Special-Categories_101d.txt, Peer2, 1002, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer2]]
Wikipedia-Sandbox_ae3e.txt -> [[Wikipedia-Sandbox_ae3e.txt, Peer1, 1001, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer1]]
rtl.txt -> [[rtl.txt, Peer2, 1002, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer2], [rtl.txt, Peer3, 1003, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer3]]
MediaWiki-Monobook.txt -> [[MediaWiki-Monobook.txt, Peer2, 1002, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer2]]
preview.txt -> [[preview.txt, Peer1, 1001, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer1]]
arrow_left.txt -> [[arrow_left.txt, Peer3, 1003, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer3], [arrow_left.txt, Peer1, 1001, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer1]]
DIC_22082018.txt -> [[DIC_22082018.txt, Peer2, 1002, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer2], [DIC_22082018.txt, Peer3, 1003, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer3]]
Category-User_n1_e104.txt -> [[Category-User_n1_e104.txt, Peer1, 1001, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer1]]
Process Flow.txt -> [[Process Flow.txt, Peer2, 1002, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer2]]
Category-User_fr-1_d449.txt -> [[Category-User_fr-1_d449.txt, Peer3, 1003, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer3]]
Category-User_fr_fff4.txt -> [[Category-User_fr_fff4.txt, Peer3, 1003, K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer3]]
#####

```

13. Peer 2 Directory. "75\_clan.txt" file deleted.



14. If Peers are done with searching and deletion, they can directly enter "Exit" after this prompt.

```
C:\WINDOWS\system32\cmd.exe
"Peer is now Running. Please configure your setting."
"#####"
Enter the port number on which peer needs to be registered
1001
Enter the directory path
K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Peer1
Peer is up and Running.
Enter Your Peer ID
Peer1
Registering details of File name Category~User_nl-N_e104.txt in Indexing Server
Registering details of File name COPYING.txt in Indexing Server
Registering details of File name DIC_27082018.txt in Indexing Server
Registering details of File name feed.txt in Indexing Server
Registering details of File name IE60Fixes.txt in Indexing Server
Registering details of File name lookup.txt in Indexing Server
Registering details of File name preview.txt in Indexing Server
Registering details of File name quickbar-right.txt in Indexing Server
Registering details of File name User_talk~Node_ue_c819.txt in Indexing Server
Registering details of File name User~EdmundEzekielMahmudIsa_fe9e.txt in Indexing Server
Registering details of File name Wikipedia~Sandbox_ae3e.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
arrow_left.txt
Peer providing the file with Peer ID is Peer3
Enter Peer ID you wish to take the file from
Peer3
2581
File Downloading Successful.
Display File arrow_left.txt
Do you want to search again ? (Yes/No)
No
Do you want to Search a File, Delete File or Exit? (Search/Delete/Exit)
Exit
Press any key to continue . . .
```

## 15. 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 2 seconds, press a key to continue ...
"#####"
"LOAD TESTING of P2P started"
"#####"
Enter the choice for Single Client Evaluation or Multi Client (5 Clients) :
Single
Please Enter a path
K:\IIT Life\Lecture Notes\SEM 1 - DIC AOS DPA\AOS\Homework-Programming\Eval_Peer1
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 IE70Fixes.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: 854404814048057
end is: 854405156697257
Avg Response time of PeerID Peer1 is 0.684ms
```

## 16. Average Search Response time for Multiple Clients (5 Clients)

```
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 shared.txt in Indexing Server
Registering details of File name MediaWiki~Monobook.txt in Indexing Server
Registering details of File name Talk~Main Page Archive_1_12c9.txt in Indexing Server
Registering details of File name lookup.txt in Indexing Server
Registering details of File name protect.txt in Indexing Server
Registering details of File name quickbar-right.txt in Indexing Server
Registering details of File name MediaWiki~Common.txt in Indexing Server
Registering details of File name rtl.txt in Indexing Server
Registering details of File name User~Lothar_b2a9.txt in Indexing Server
Registering details of File name Process Flow.txt in Indexing Server
Registering details of File name wikistandard.txt in Indexing Server
Registering details of File name Template~Delete_bfa0.txt in Indexing Server
Registering details of File name Process Flow.txt in Indexing Server
Registering details of File name upload.txt in Indexing Server
Registering details of File name User~EDUCA33E_2e3c.txt in Indexing Server
Registering details of File name User~EDUCA33E_2e3c.txt in Indexing Server
start is: 854506682678071
Registering details of File name Rob_Spurr_7000.txt in Indexing Server
Registering details of File name User~Korg_ff2d.txt in Indexing Server
start is: 854506805782169
Registering details of File name User talk~Node ue_c819.txt in Indexing Server
Registering details of File name User~Pill_monobook.js_03c0.txt in Indexing Server
Registering details of File name User~EdmundEzekielMahmudIsa_fe9e.txt in Indexing Server
Registering details of File name rtl.txt in Indexing Server
Registering details of File name utf8.txt in Indexing Server
Registering details of File name Wikipedia~Sandbox_ae3e.txt in Indexing Server
Registering details of File name Special~Categories_101d.txt in Indexing Server
start is: 854507131659936
start is: 854507193838072
Registering details of File name sticky.txt in Indexing Server
Registering details of File name User~Aurevilly_fc9e.txt in Indexing Server
start is: 854507567729013
end is: 854508617439293
Avg Response time of PeerID Peer1 is 2.97ms
end is: 854508645524427
Avg Response time of PeerID Peer5 is 3.678ms
end is: 854508652882489
Avg Response time of PeerID Peer2 is 3.94ms
end is: 854508665157386
Avg Response time of PeerID Peer3 is 2.942ms
end is: 854508797010793
Avg Response time of PeerID Peer4 is 2.458ms
```