OUTPUT FILE

Register Operations:


```
Menu:
1.Register File(s)
2.Search File
3.Obtain
0.Exit

1
Enter File(s) with Extension:
10100
Success
Success
File Copied
Time:12
Menu:
1.Register File(s)
2.Search File
3.Obtain
0.Exit
```

```
2.Search File
3.Obtain
0.Exit

1
Enter File(s) with Extension:
20001
Success
Success
File Copied
Time:41
Menu:
1.Register File(s)
2.Search File
3.Obtain
0.Exit

Distributed Hash Table:
{10100=[Server0]}
```
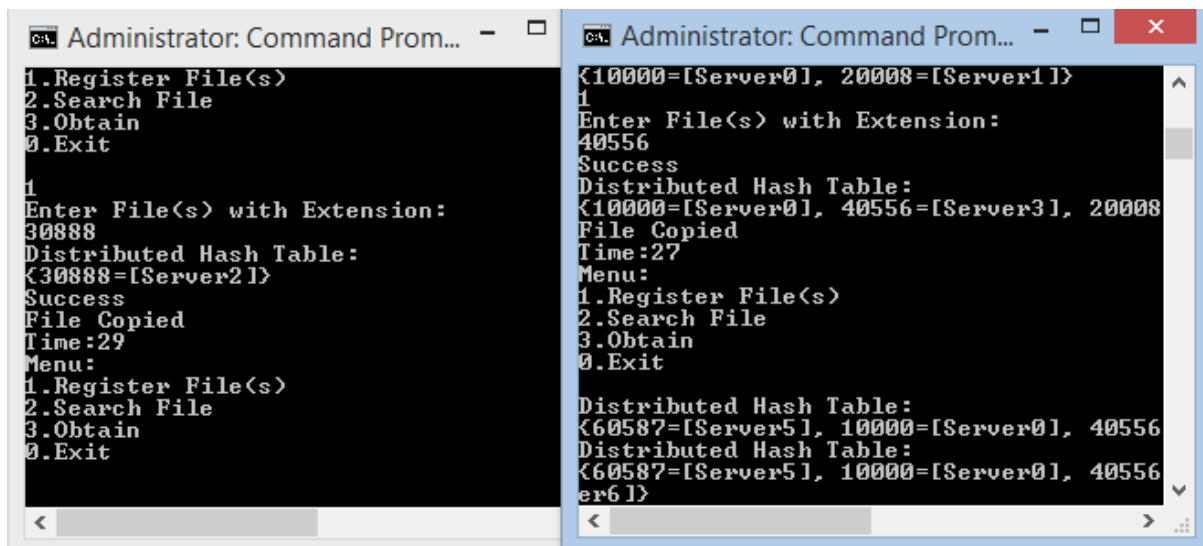


```
1.Register File(s)
2.Search File
3.Obtain
0.Exit

1
Enter File(s) with Extension:
30888
Distributed Hash Table:
{30888=[Server2]}
Success
File Copied
Time:29
Menu:
1.Register File(s)
2.Search File
3.Obtain
0.Exit
```

```
{10000=[Server0], 20008=[Server1]}
1
Enter File(s) with Extension:
40556
Success
Distributed Hash Table:
{10000=[Server0], 40556=[Server3], 20008
File Copied
Time:27
Menu:
1.Register File(s)
2.Search File
3.Obtain
0.Exit

Distributed Hash Table:
{60587=[Server5], 10000=[Server0], 40556
Distributed Hash Table:
{60587=[Server5], 10000=[Server0], 40556
er6]}
```
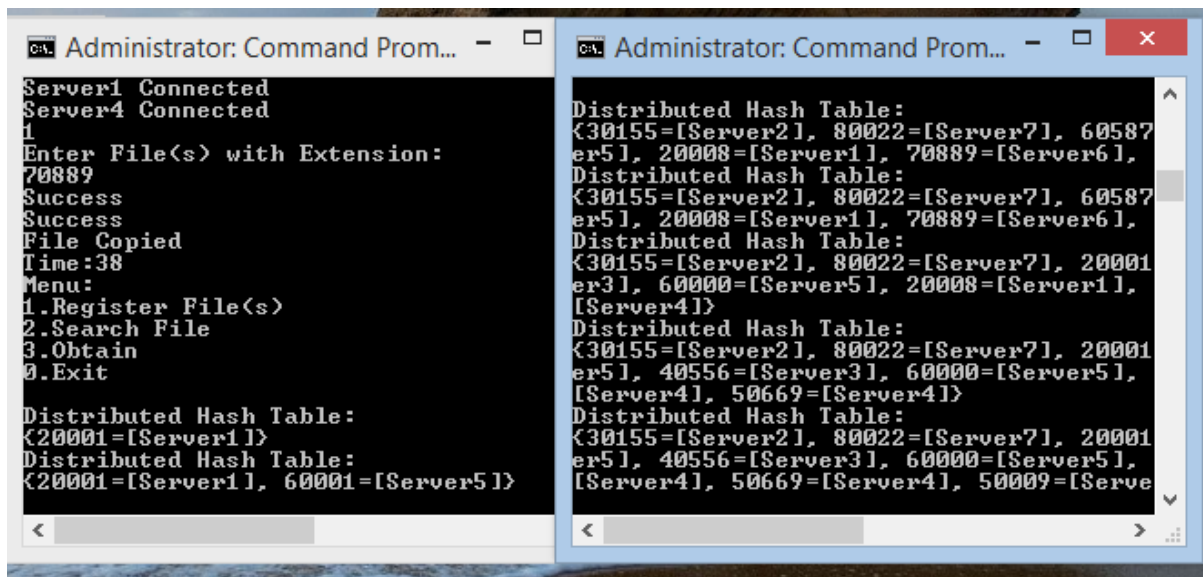
Window 1 (top left):
```
Menu:
1.Register File(s)
2.Search File
3.Obtain
0.Exit

1
Enter File(s) with Extension:
50009
Success
Success
File Copied
Time:46
Menu:
1.Register File(s)
2.Search File
3.Obtain
0.Exit
```
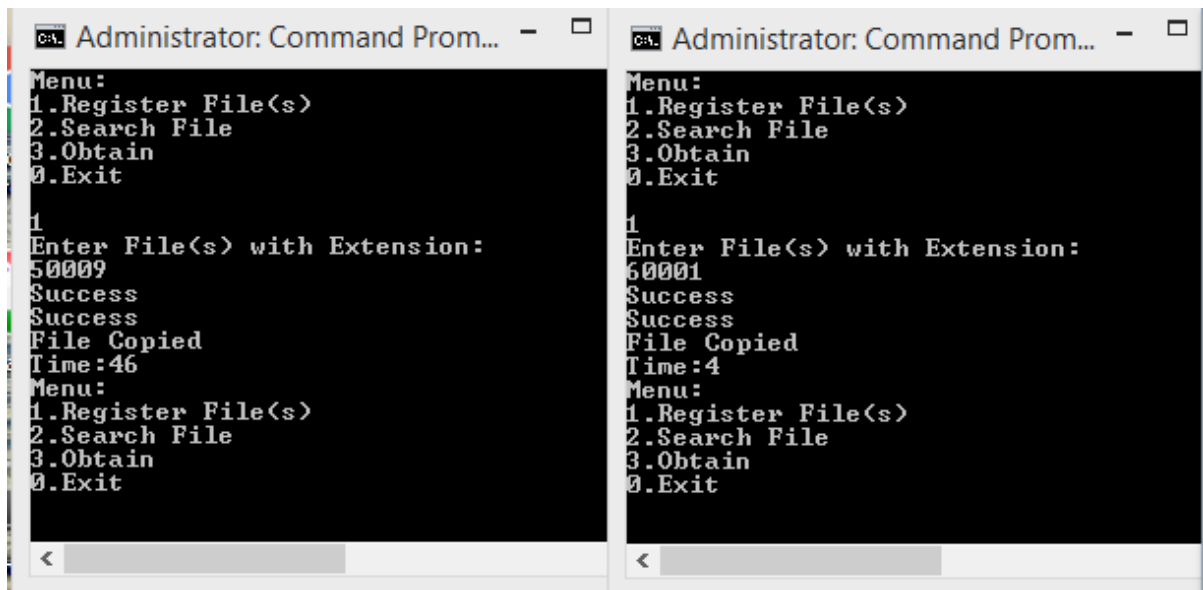
Window 2 (top right):
```
Menu:
1.Register File(s)
2.Search File
3.Obtain
0.Exit

1
Enter File(s) with Extension:
60001
Success
Success
File Copied
Time:4
Menu:
1.Register File(s)
2.Search File
3.Obtain
0.Exit
```

Window 3 (bottom left):
```
Server1 Connected
Server4 Connected
1
Enter File(s) with Extension:
70889
Success
Success
File Copied
Time:38
Menu:
1.Register File(s)
2.Search File
3.Obtain
0.Exit

Distributed Hash Table:
{20001=[Server1]}
Distributed Hash Table:
{20001=[Server1], 60001=[Server5]}
```
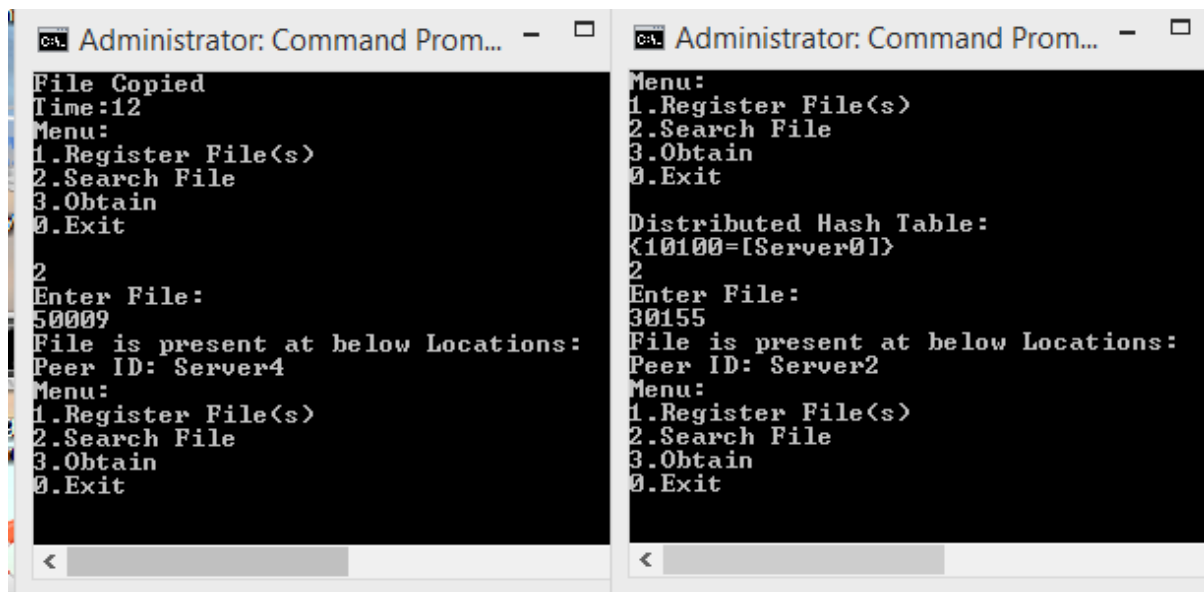
Window 4 (bottom right):
```
Distributed Hash Table:
{30155=[Server2], 80022=[Server7], 60587
er5], 20008=[Server1], 70889=[Server6],
Distributed Hash Table:
{30155=[Server2], 80022=[Server7], 60587
er5], 20008=[Server1], 70889=[Server6],
Distributed Hash Table:
{30155=[Server2], 80022=[Server7], 20001
er3], 60000=[Server5], 20008=[Server1],
[Server4]}
Distributed Hash Table:
{30155=[Server2], 80022=[Server7], 20001
er5], 40556=[Server3], 60000=[Server5],
[Server4], 50669=[Server4]}
Distributed Hash Table:
{30155=[Server2], 80022=[Server7], 20001
er5], 40556=[Server3], 60000=[Server5],
[Server4], 50669=[Server4], 50009=[Serve
```
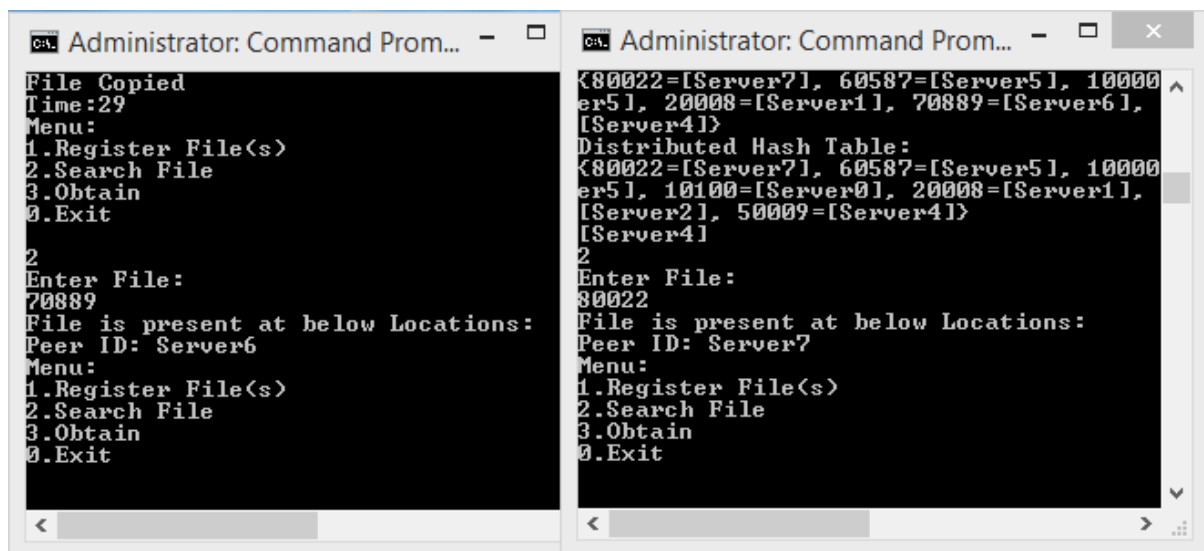
Search Operations:


```
File Copied
Time:12
Menu:
1.Register File(s)
2.Search File
3.Obtain
0.Exit

2
Enter File:
50009
File is present at below Locations:
Peer ID: Server4
Menu:
1.Register File(s)
2.Search File
3.Obtain
0.Exit
```

```
Menu:
1.Register File(s)
2.Search File
3.Obtain
0.Exit

Distributed Hash Table:
{10100=[Server0]}
2
Enter File:
30155
File is present at below Locations:
Peer ID: Server2
Menu:
1.Register File(s)
2.Search File
3.Obtain
0.Exit
```

```
File Copied
Time:29
Menu:
1.Register File(s)
2.Search File
3.Obtain
0.Exit

2
Enter File:
70889
File is present at below Locations:
Peer ID: Server6
Menu:
1.Register File(s)
2.Search File
3.Obtain
0.Exit
```

```
{80022=[Server7], 60587=[Server5], 10000
er5], 20008=[Server1], 70889=[Server6],
[Server4]}
Distributed Hash Table:
{80022=[Server7], 60587=[Server5], 10000
er5], 10100=[Server0], 20008=[Server1],
[Server2], 50009=[Server4]}
2
Enter File:
80022
File is present at below Locations:
Peer ID: Server7
Menu:
1.Register File(s)
2.Search File
3.Obtain
0.Exit
```

```
Administrator: Command Prom...  ─  ☐

Success
File Copied
Time:46
Menu:
1.Register File(s)
2.Search File
3.Obtain
0.Exit

2
Enter File:
66882
File not Registered
Menu:
1.Register File(s)
2.Search File
3.Obtain
0.Exit

<
```

```
Administrator: Command Prom...  ─  ☐

Time:4
Menu:
1.Register File(s)
2.Search File
3.Obtain
0.Exit

[Server2]
2
Enter File:
84220
File is present at below Locations:
[]
Menu:
1.Register File(s)
2.Search File
3.Obtain
0.Exit

<
```
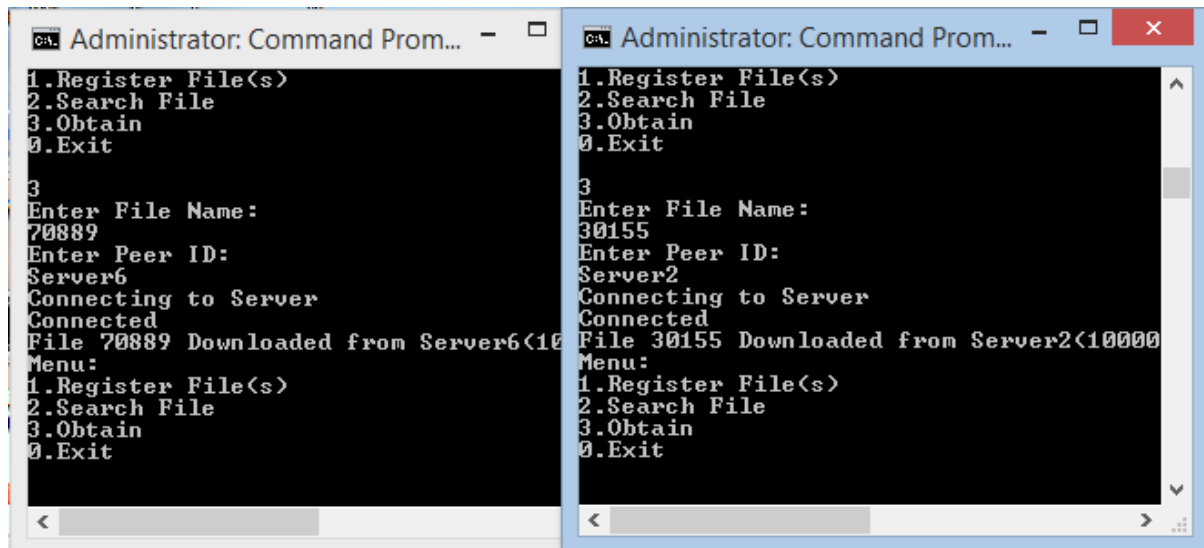
```
Administrator: Command Prom...  ─  ☐

3.Obtain
0.Exit

Distributed Hash Table:
{20001=[Server1]}
Distributed Hash Table:
{20001=[Server1], 60001=[Server5]}
[Server5]
2
Enter File:
60587
File is present at below Locations:
Peer ID: Server5
Menu:
1.Register File(s)
2.Search File
3.Obtain
0.Exit

<
```

```
Administrator: Command Prom...  ─  ☐  ✕

Distributed Hash Table:
{30155=[Server2], 80022=[Server7], 20001
er5], 40556=[Server3], 60000=[Server5],
[Server6]
[Server7]
2
Enter File:
60001
File is present at below Locations:
Peer ID: Server5
Menu:
1.Register File(s)
2.Search File
3.Obtain
0.Exit

[Server5]
[]

<                              >
```
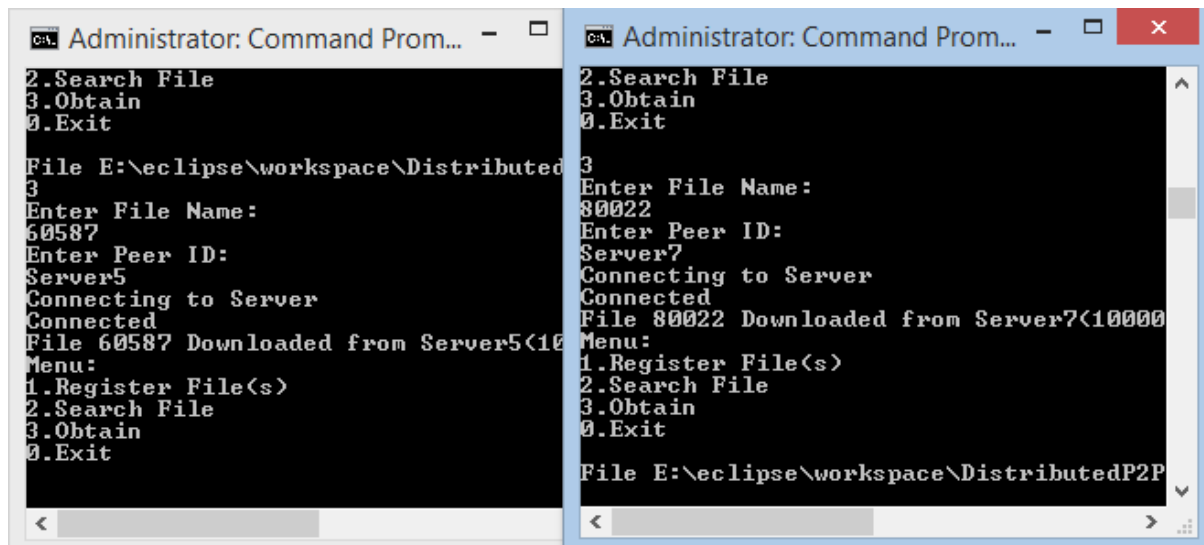
Obtain Operations


```
1.Register File(s)
2.Search File
3.Obtain
0.Exit

3
Enter File Name:
70889
Enter Peer ID:
Server6
Connecting to Server
Connected
File 70889 Downloaded from Server6(10
Menu:
1.Register File(s)
2.Search File
3.Obtain
0.Exit
```

```
1.Register File(s)
2.Search File
3.Obtain
0.Exit

3
Enter File Name:
30155
Enter Peer ID:
Server2
Connecting to Server
Connected
File 30155 Downloaded from Server2(10000
Menu:
1.Register File(s)
2.Search File
3.Obtain
0.Exit
```

```
2.Search File
3.Obtain
0.Exit

File E:\eclipse\workspace\Distributed
3
Enter File Name:
60587
Enter Peer ID:
Server5
Connecting to Server
Connected
File 60587 Downloaded from Server5(10
Menu:
1.Register File(s)
2.Search File
3.Obtain
0.Exit
```

```
2.Search File
3.Obtain
0.Exit

3
Enter File Name:
80022
Enter Peer ID:
Server7
Connecting to Server
Connected
File 80022 Downloaded from Server7(10000
Menu:
1.Register File(s)
2.Search File
3.Obtain
0.Exit

File E:\eclipse\workspace\DistributedP2P
```
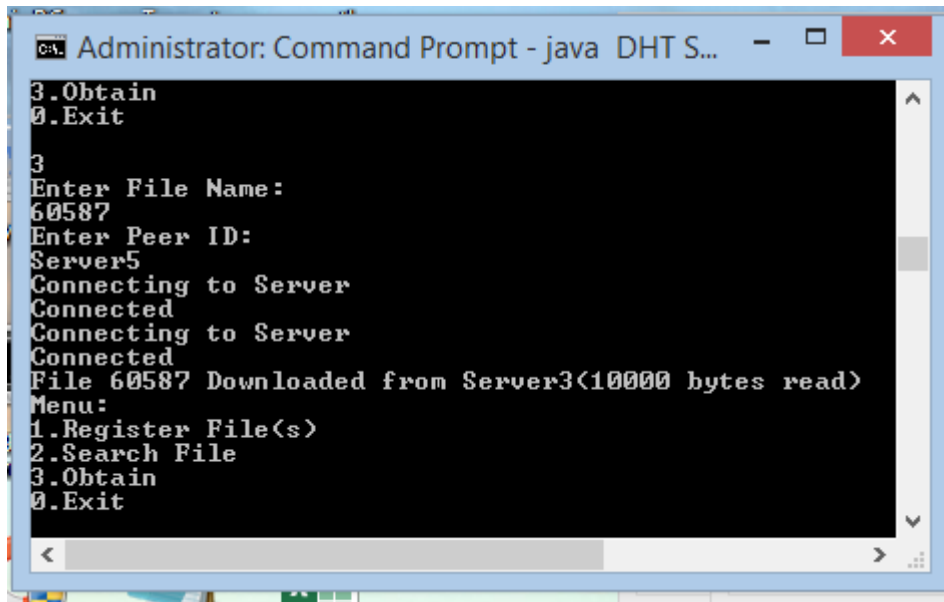
Administrator: Command Prom...

```
1.Register File(s)
2.Search File
3.Obtain
0.Exit

3
Enter File Name:
40556
Enter Peer ID:
Server3
Connecting to Server
Connected
File 40556 Downloaded from Server3(0
Menu:
1.Register File(s)
2.Search File
3.Obtain
0.Exit
```

Administrator: Command Prom...

```
Menu:
1.Register File(s)
2.Search File
3.Obtain
0.Exit

[Server2]
2
Enter File:
84220
File is present at below Locations:
[]
Menu:
1.Register File(s)
2.Search File
3.Obtain
0.Exit

File E:\eclipse\workspace\DistributedP2P
```

Administrator: Command Prom...

```
0.Exit

Distributed Hash Table:
{20001=[Server1]}
Distributed Hash Table:
{20001=[Server1], 60001=[Server5]}
[Server5]
2
Enter File:
60587
File is present at below Locations:
Peer ID: Server5
Menu:
1.Register File(s)
2.Search File
3.Obtain
0.Exit

File E:\eclipse\workspace\Distributed
```

Administrator: Command Prom...

```
er5], 40556=[Server3], 60000=[Server5],
[Server4], 50669=[Server4], 50009=[Serve
[Server6]
[Server7]
2
Enter File:
60001
File is present at below Locations:
Peer ID: Server5
Menu:
1.Register File(s)
2.Search File
3.Obtain
0.Exit

[Server5]
[]
File E:\eclipse\workspace\DistributedP2P
[Server3]
```

After Server5 is down, it downloads the file from replicated Server3 without any knowledge to user.