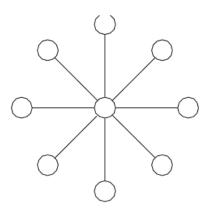
# SCREENSHOTS FOR THE PROGRAMMING PROJECT ON GNUTELLA PEER TO PEER PROGRAMMING

#### STAR TOPOLOGY



Star Topology

1. Configuration details of all the peers in the network after reading from the config file.

```
### caminal@treebeard:~/Gnutella Nw javac -d /home/TTU/narnimah/Gnutella Nw ThreadOfHelloServer.java Hello.java HelloInterface.java HelloClient.java ReadConfig Clava IntalianingReerDetails.java GetPropertyValues.java FileImpl.java FileDetails.java AverageResponseTime.java HelloInterface.java HelloClient.java ReadConfig Clava IntalianingReface.java HelloClient.java Hello
```

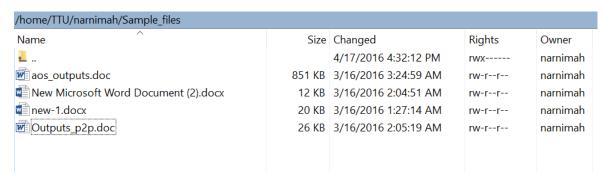
2. Sending the search query message to each peer and its neighbours

```
Meighbouring node is1
Peer ID :8
Port Number :4008
Directory Path :/home/TTU/narnimah/test_3
Neighbouring node is1
Peer ID :9
Port Number :4009
Directory Path :/home/TTU/narnimah/test_4
Neighbouring node is1
Peer ID :10
Per ID :10
```

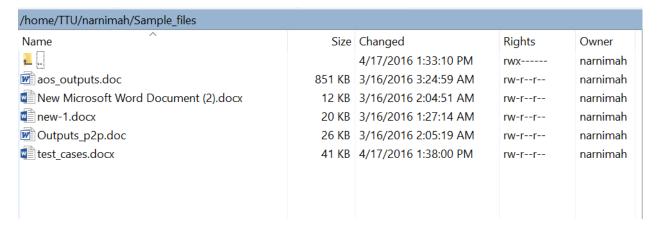
3. Displaying all the details of the peer containing the file in the hit query message format.

```
Sending query measage to neighbouring nodes of Peer:7
Sending query measage to neighbouring nodes of Peer:8
Sending query measage to neighbouring nodes of Peer:9
Sending query measage are
File to be searched is test_cases.docx
agg is 1
Time to Live7
The files match
Time to Live6
Feer ID containg the file is3
Fort number of the peer4003
the files match
Time to Live5
Foer In containg the file is5
Fort number of the peer4005
Count of the number of files matched2
Following are the hit query measage are
Feer ID 5
Fort Number 4003
FileName test_cases.docx
Message ID isl+1
Time to Live6
Feer ID's having the given file are3
Feer ID's having the given file are3
Feer ID's having the given file are3
Feer ID's having the given file are5
Enter the peer ID you want to connect and download the file from
3
Source Fath /home/TTU/narnimah/Sample_files
File downloaded successfully
Do you want to continue searching Yes or No
```

4.Before downloading the file 'test\_cases.docx' on the specified path



### 5. After download the file 'test\_cases.docx' on the specified path



6.Sending a search query again, displays the hit query message but count of sequence number is increased now.

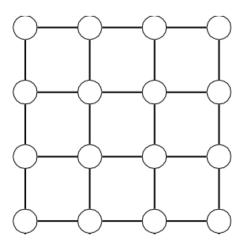
```
Peer ID's having the given file are3
Feer ID's having the given file are5
Enter the peer ID you want to connect and download the file from 3
Source Path /home/TTU/harnimah/spring_16 fees//test_cases.docx
Destination Path /home/TTU/harnimah/sample_files
File downloaded successfully
Do you want to continue searching Yes or No

yes
File to be searched is test_cases.docx
seq is 2
Time to Live?
The files match
Time to Live6
Feer ID containg the file is3
Fort number of the peer4003
the files match
Time to Live6
Feer ID containg the file is5
Foot number of files match
Time to Live8
Feer ID containg the file is6
Feer ID containg the file is7
Foot number of files matched2
Following are the hit guery messages
Hit query message are
ReverID 3
Fort Number 4003
FileName test_cases.docx
Message ID is1+2
Time to Live6
Feer ID's having the given file are3
Feer ID's having the qiven file are3
Feer ID's having the qiven file are5
Enter the peer ID you want to connect and download the file from 5
Source Path /home/TTU/harnimah/SMA//test_cases.docx
Enter the peer ID you want to connect and download the file from 5
Source Path /home/TTU/harnimah/SMA//test_cases.docx
Enter the peer ID you want to connect and download the file from 5
Source Path /home/TTU/harnimah/SMA/feest_cases.docx
Enter the peer ID you want to connect and download the file from 5
Source Path /home/TTU/harnimah/SMA/feest_cases.docx
Enter the peer ID you want to connect and fownload the file from 5
Source Path /home/TTU/harnimah/SMA/feest_cases.docx
Enter the peer ID you want to connect and fownload the file from 5
Source Path /home/TTU/harnimah/SMA/feest_cases.docx
Enter the peer ID you want to connect and fownload the file from 5
Source Path /home/TTU/harnimah/SMA/feest_cases.docx
Enter the peer ID you want to connect and fownload the file from 5
Source Path /home/TTU/harnimah/SMA/feest_cases.docx
Enter the peer ID you want to connect and fownload the file from 5
Source Path /home/TTU/harnimah/SMA/feest_cases.docx
Enter the peer ID you want to connect and fownload
```

7. Computing the average response per client search query request by repeating the measurement 100 times and get the average

```
Source Fath /home/TUV/narnimah/SMaple_files
Source Fath /home/TUV/narnimah/SMaple_files
File to be searched in test_cases.docx
seq is 2
Time to be searched in test_cases.docx
seq is 2
Time to las march
Time to las march
Time to five
Feer ID containg the file is3
Fort number of the peer4003
the files match
Time to five
Fort number of the peer4003
Count of the number of files matched2
Source Fath /home/TUV/narnimah/SMaple_files
Source Fath /home/TUV/narnimah/SMaple_files
File to be searched in test_cases.docx
Destination Fath /home/TUV/narnimah/SMaple_files
Fort number of the peer4003
The files match
Time to live
Fath /home/TUV/narnimah/SMAPle files
Fort number of the peer4003
Tource Fath /home/TUV/narnimah/SMAPle files
Fort number of the peer4004
Tource Fath /home/TUV/narnimah/SMAPle files
Fource Fath /home/TUV/narnimah/SMAPle files
Fource Fath /home/TUV/narnimah/SMAPle files
File to be searched in test_cases.docx
seq is 2
Time to live
File To be searched in test_cases.docx
may file file is3
Fort number of the peer4003
The files match
Time to live
Feer ID containing the file is3
Fort number of the peer4003
The files match
Time to tive
Fort number of the peer4003
The files match
Time to tive
Fort number of the peer4003
The files match
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Fort number of the peer4003
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Time to the files files
Fort number of the peer4003
The files match
Time to the files files
Fort number of the peer4003
The files match
Time to the files files
Fort number of the peer4003
The files files
Fort number of the peer4003
The files files
Fort number of the peer4005
The files fi
```

### **MESH TOPOLOGY**



2D-mesh Topology

1. Configuration details of all the peers in the network after reading from the config file.

```
| Institute | Inst
```

2. Configuration details of all the peers in the network after reading from the config file.3.

```
Paramah@trebeard.~fontels.hw

rear ID is

Fort Number 14005

Fort Number 14005

Fort Number 14006

Fort Number 14007

Fort Number 14008

Fort Number 14009

Fort Number 14000

Fort Numb
```

3. Sending the search query message to each peer and its neighbours

```
Parent Dis 8
Foot Number :4008
Foot Number :4009
Foot Number :4000
```

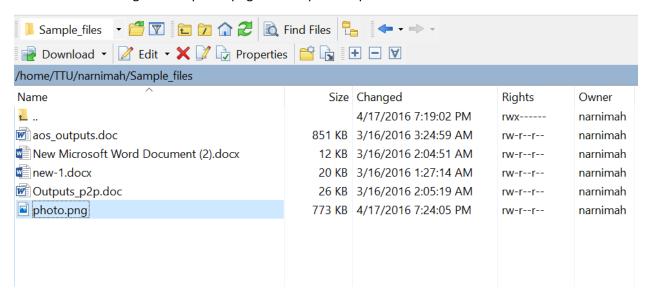
4. Displaying all the details of the peer containing the file in the hit query message format.

```
Port number of the per4008
the files match
Time to Live-3
Feer ID containg the file is9
Fort number of the per4009
the files match
Time to Live-3
Feer ID containg the file is11
Fort number of the per4001
the files match
Time to Live-5
Feer ID containg the file is11
Fort number of the per4011
the files match
Time to Live-5
Feer ID containg the file is12
Fort number of the per4011
Count of the number of files matched?
Following are the hit query measage
Hit query message are
Feer ID port Number 4002
FileName photo.png Message ID is1+1
Time to Live-1
Hit query message are
Feer ID port Number 4006
FileName photo.png Message ID is1+1
Time to Live-1
Hit query message are
Feer ID shawn the fole of the per400
FileName photo.png Message ID is1+1
Time to Live-1
Hit query message are
Feer ID shawn the fole of the perf400
FileName photo.png Message ID is1+1
Time to Live-2
Hit query message are
Feer ID shawn the fole of the perf400
FileName photo.png Message ID is1+1
File to Live-3
Hit query message are
Feer ID shawn the fole of the perf400
FileName photo.png Message ID is1+1
Fort Number 4005
FileName photo.png Message ID is1+1
File to Live-3
FileName photo.png Message ID is1+1
FileName phot
```

## 5. Before downloading the file 'photo.png' on the specified path

/home/TTU/narnimah/Sample_files				
Name	Size	Changed	Rights	Owner
<u>t</u>		4/17/2016 7:19:02 PM	rwx	narnimah
aos_outputs.doc	851 KB	3/16/2016 3:24:59 AM	rw-rr	narnimah
New Microsoft Word Document (2).docx	12 KB	3/16/2016 2:04:51 AM	rw-rr	narnimah
new-1.docx	20 KB	3/16/2016 1:27:14 AM	rw-rr	narnimah
Outputs_p2p.doc	26 KB	3/16/2016 2:05:19 AM	rw-rr	narnimah

## 6. After downloading the file 'photo.png' on the specified path



7. Sending a search query again, displays the hit query message but count of sequence number is increased now.

```
Time to Live-1
Feer ID contains the file is?
Fort number of the peer400?
Time to live-3
Feer ID contains the file is8
Fort number of the peer4008
Time to Live-3
Feer ID contains the file is8
Fort number of the peer4008
The files match
Time to Live-3
Feer ID contains the file is9
Feer ID contains the file is9
Feer ID contains the file is19
Feer ID contains the file is11
Fort number of the peer4009
The files match
Time to Live-3
Feer ID contains the file is11
Fort number of the peer4011
Time to Live-4
Feer ID contains the file is12
Fort number of the peer4011
Time to Live-4
Feer ID contains the file is12
Fort number of the peer4012
Count of the number of files matched?
Following are the hit query messages
Hit query message are
FeerID 2
Fort Number 4002
FileName photo.png
FileName photo.png
Message ID is1+2
Time to Live-1
Hit query message are
FeerID 3
Fort Number 4008
FileName photo.png
Message ID is1+2
Time to Live-1
Hit query message are
FeerID 3
Fort Number 4009
FileName photo.png
Message ID is1+2
Time to Live-2
Hit query message are
FeerID 3
Fort Number 4009
FileName photo.png
Message ID is1+2
Time to Live-3
Hit query message are
FeerID 3
Fort Number 4009
FileName photo.png
Message ID is1+2
Time to Live-3
Hit query message are
FeerID 3
Fort Number 4009
FileName photo.png
Message ID is1+2
Time to Live-3
Hit query message are
FeerID 3
Fort Number 4009
FileName photo.png
Message ID is1+2
Time to Live-3
Hit query message are
FeerID 3
Fort Number 4012
FileName photo.png
Message ID is1+2
Time to Live-4
FileName photo.png
Message ID is1+2
Time to Live-5
Feer ID's having the given file are6
FileName photo.png
Message ID is1+2
Time to Live-5
Feer ID's having the given file are6
FileName photo.png
Message ID is1+2
Time to Live-5
Feer ID's having the given file are6
FileName photo.png
Message ID is1+2
Time to Live-5
Feer ID's having the given file are6
FileName photo.png
Message ID is1+2
Time to Live-5
Feer ID's having the given file are6
FileName photo.png
Message ID is1+2
Time to Live-5
Feer ID's having the given file
```

8.Computing the average response per client search query request by repeating the measurement 100 times and get the average

```
Destination Path /nome/TTU/narnimah/Sample_files
trackingCount99
responseTime is24765ms
avgResponseTime is24ms
narnimah@treebeard:~/Gnutella_Nw$
```

9.If you do not wish to perform send a search query at the start

```
Port Number :4008
Directory Path :/home/TU/narnimah/test_3
Baighbouring node is4
Neighbouring node is12
Feer ID :9
Fort Number :4009
Directory Path :/home/TU/narnimah/test_4
Neighbouring node is12
Feer ID :9
Fort Number :4009
Directory Path :/home/TU/narnimah/test_4
Neighbouring node is10
Feer ID :10
Fort Number :4009
Directory Path :/home/TU/narnimah/test_5
Neighbouring node is10
Fort Number :4001
Directory Path :/home/TU/narnimah/test_6
Neighbouring node is11
Feer ID :11
Feer ID :11
Feer ID :11
Feer ID :11
Feer ID :12
Fort Number :4010
Directory Path :/home/TU/narnimah/test_6
Neighbouring node is12
Feer ID :12
Fort Number :4012
Directory Path :/home/TU/narnimah/test_7
Neighbouring node is12
Feer ID :12
Fort Number :4012
```