Output

Search and download file 'file1'

Peer 1:

Peer 2:

```
[→ P2PGnutella git:(master) ✗ ant -Darg0=2 -Darg1=8002 run
Buildfile: /Users/Kunal/Documents/workspace/P2PGnutella/build.xml

run:
     [java] Peer 2 acting as server on 127.0.0.1:8002
     [java]
     [java]
     [java] ***********************************************************
     [java] **** A Simple Gnutella Style Peer to Peer File Sharing System ****
     [java] ***********************************************************
     [java] 1. Search and Download File
     [java] 2. Exit
     [java] Select your choice:
     [java] Incoming Request to peer 2: From - 1 Search locally and send request to neighbours for msg id- 1488158568388-1-1
     [java] Local Search: File Found in the current peer
     [java]
     [java] HitQuery: Send following result back to 1
     [java] --Found at Peer2 on localhost:8002
```

Peer 3:

```
[→ P2PGnutella git:(master) ✗ ant -Darg0=3 -Darg1=8003 run
Buildfile: /Users/Kunal/Documents/workspace/P2PGnutella/build.xml

run:
     [java] Peer 3 acting as server on 127.0.0.1:8003
     [java]
     [java]
     [java] ***********************************************************
     [java] **** A Simple Gnutella Style Peer to Peer File Sharing System ****
     [java] ***********************************************************
     [java] 1. Search and Download File
     [java] 2. Exit
     [java] Select your choice:
     [java] Incoming Request to peer 3: From - 1 Search locally and send request to neighbours for msg id- 1488158568388-1-1
     [java] Local Search: File not found in the current peer
     [java]
     [java] HitQuery: Send following result back to 1
```

Peer 4:

```
[→ P2PGnutella git:(master) ✗ ant -Darg0=4 -Darg1=8004 run
Buildfile: /Users/Kunal/Documents/workspace/P2PGnutella/build.xml

run:
     [java] Peer 4 acting as server on 127.0.0.1:8004
     [java]
     [java]
     [java] ***********************************************************
     [java] **** A Simple Gnutella Style Peer to Peer File Sharing System ****
     [java] ***********************************************************
     [java] 1. Search and Download File
     [java] 2. Exit
     [java] Select your choice:
     [java] Incoming Request to peer 4: From - 1 Search locally and send request to neighbours for msg id- 1488158568388-1-1
     [java] Local Search: File Found in the current peer
     [java]
     [java] HitQuery: Send following result back to 1
     [java] --Found at Peer4 on localhost:8004
```

Peer 5:

```
    ant          ant          ant          ant      ●    ant         ant  java...    ant  java...
→ P2PGnutella git:(master) ✗ ant -Darg0=5 -Darg1=8005 run
Buildfile: /Users/Kunal/Documents/workspace/P2PGnutella/build.xml

run:
     [java] Peer 5 acting as server on 127.0.0.1:8005
     [java]
     [java]
     [java] ****************************************************************
     [java] **** A Simple Gnutella Style Peer to Peer File Sharing System ****
     [java] ****************************************************************
     [java] 1. Search and Download File
     [java] 2. Exit
     [java] Select your choice:
     [java] Incoming Request to peer 5: From - 1 Search locally and send request to neighbours for msg id- 1488158568388-1-1
     [java] Local Search: File not found in the current peer
     [java]
     [java] HitQuery: Send following result back to 1
```

Peer 6:

```
    ant          ant          ant          ant         ant      ●    ant         ant  java...
→ P2PGnutella git:(master) ✗ ant -Darg0=6 -Darg1=8006 run
Buildfile: /Users/Kunal/Documents/workspace/P2PGnutella/build.xml

run:
     [java] Peer 6 acting as server on 127.0.0.1:8006
     [java]
     [java]
     [java] ****************************************************************
     [java] **** A Simple Gnutella Style Peer to Peer File Sharing System ****
     [java] ****************************************************************
     [java] 1. Search and Download File
     [java] 2. Exit
     [java] Select your choice:
     [java] Incoming Request to peer 6: From - 1 Search locally and send request to neighbours for msg id- 1488158568388-1-1
     [java] Local Search: File Found in the current peer
     [java]
     [java] HitQuery: Send following result back to 1
     [java] --Found at Peer6 on localhost:8006
```

Peer 7:

```
    ant          ant          ant          ant          ant          ant      ●    ant
→ P2PGnutella git:(master) ✗ ant -Darg0=7 -Darg1=8007 run
Buildfile: /Users/Kunal/Documents/workspace/P2PGnutella/build.xml

run:
     [java] Peer 7 acting as server on 127.0.0.1:8007
     [java]
     [java]
     [java] ****************************************************************
     [java] **** A Simple Gnutella Style Peer to Peer File Sharing System ****
     [java] ****************************************************************
     [java] 1. Search and Download File
     [java] 2. Exit
     [java] Select your choice:
     [java] Incoming Request to peer 7: From - 1 Search locally and send request to neighbours for msg id- 1488158568388-1-1
     [java] Local Search: File not found in the current peer
     [java]
     [java] HitQuery: Send following result back to 1
```

Peer 8:

```
ant          ant          ant          ant          ant          ant          ant          •
→ P2PGnutella git:(master) ✗ ant -Darg0=8 -Darg1=8008 run
Buildfile: /Users/Kunal/Documents/workspace/P2PGnutella/build.xml

run:
     [java] Peer 8 acting as server on 127.0.0.1:8008
     [java]
     [java]
     [java] **********************************************************
     [java] **** A Simple Gnutella Style Peer to Peer File Sharing System ****
     [java] **********************************************************
     [java] 1. Search and Download File
     [java] 2. Exit
     [java] Select your choice:
     [java] Incoming Request to peer 8: From - 1 Search locally and send request to neighbours for msg id- 1488158568388-1-1
     [java] Local Search: File Found in the current peer
     [java]
     [java] HitQuery: Send following result back to 1
     [java] --Found at Peer8 on localhost:8008
```

Peer 9:

```
ant          ant          ant          ant          ant          ant          ant
→ P2PGnutella git:(master) ✗ ant -Darg0=9 -Darg1=8009 run
Buildfile: /Users/Kunal/Documents/workspace/P2PGnutella/build.xml

run:
     [java] Peer 9 acting as server on 127.0.0.1:8009
     [java]
     [java]
     [java] **********************************************************
     [java] **** A Simple Gnutella Style Peer to Peer File Sharing System ****
     [java] **********************************************************
     [java] 1. Search and Download File
     [java] 2. Exit
     [java] Select your choice:
     [java] Incoming Request to peer 9: From - 1 Search locally and send request to neighbours for msg id- 1488158568388-1-1
     [java] Local Search: File Found in the current peer
     [java]
     [java] HitQuery: Send following result back to 1
     [java] --Found at Peer9 on localhost:8009
```

Peer 10:

```
ant          ant          ant          ant          ant          ant          ant
→ P2PGnutella git:(master) ✗ ant -Darg0=10 -Darg1=8010 run
Buildfile: /Users/Kunal/Documents/workspace/P2PGnutella/build.xml

run:
     [java] Peer 10 acting as server on 127.0.0.1:8010
     [java]
     [java]
     [java] **********************************************************
     [java] **** A Simple Gnutella Style Peer to Peer File Sharing System ****
     [java] **********************************************************
     [java] 1. Search and Download File
     [java] 2. Exit
     [java] Select your choice:
     [java] Incoming Request to peer 10: From - 1 Search locally and send request to neighbours for msg id- 1488158568388-1-1
     [java] Local Search: File Found in the current peer
     [java]
     [java] HitQuery: Send following result back to 1
     [java] --Found at Peer10 on localhost:8010
```

Run Test Cases:

```
[java] Incoming Request to peer 3: From - 1 Search locally and send request to neighbours for msg id- 1488159446749-8-16
[java] Local Search: File not found in the current peer
[java] Incoming Request to peer 2: From - 1 Search locally and send request to neighbours for msg id- 1488159446749-8-16
[java] Local Search: File Found in the current peer
[java] Incoming Request to peer 4: From - 1 Search locally and send request to neighbours for msg id- 1488159446749-8-16
[java] Local Search: File Found in the current peer
[java]
[java] HitQuery: Send following result back to 1
[java]
[java]
[java] HitQuery: Send following result back to 1
[java] --Found at Peer4 on localhost:8004
[java] HitQuery: Send following result back to 1
[java] --Found at Peer2 on localhost:8002
[java] Incoming Request to peer 5: From - 1 Search locally and send request to neighbours for msg id- 1488159446749-8-16
[java] Local Search: File not found in the current peer
[java] Outgoing Request from peer 1: Sending request to 7 8007
[java]
[java] HitQuery: Send following result back to 1
[java] Outgoing Request from peer 1: Sending request to 9 8009
[java] Outgoing Request from peer 1: Sending request to 10 8010
[java] Incoming Request to peer 7: From - 1 Search locally and send request to neighbours for msg id- 1488159446749-8-16
[java] Local Search: File not found in the current peer
[java] Incoming Request to peer 6: From - 1 Search locally and send request to neighbours for msg id- 1488159446749-8-16
[java] Local Search: File Found in the current peer
[java]
[java]
[java] HitQuery: Send following result back to 1
[java] HitQuery: Send following result back to 1
[java] --Found at Peer6 on localhost:8006
[java] Incoming Request to peer 9: From - 1 Search locally and send request to neighbours for msg id- 1488159446749-8-16
[java] Local Search: File Found in the current peer
[java]
[java] Incoming Request to peer 10: From - 1 Search locally and send request to neighbours for msg id- 1488159446749-8-16
[java] Local Search: File Found in the current peer
[java] HitQuery: Send following result back to 1
[java] --Found at Peer9 on localhost:8009
[java]
[java] HitQuery: Send following result back to 1
[java] --Found at Peer10 on localhost:8010
[java] HitQuery: Send following result back to 8
[java] --Found at Peer1 on localhost:8001
[java] --Found at Peer2 on localhost:8002
[java] --Found at Peer4 on localhost:8004
[java] --Found at Peer6 on localhost:8006
[java] --Found at Peer9 on localhost:8009
[java] --Found at Peer10 on localhost:8010
[java]
[java]
[java] Total time (1): 23.970000000000002
```