**Performance Results**

I have tried to search 100.txt(file size is 100 kb) and download the file from the same peer(In this case Peer5).Below are the details for the same:

ALL to ALL Topology:

|  |  |
| --- | --- |
| Number of concurrent Peers | Time taken to search and download(in msec) |
| 2 | 12 |
| 3 | 24 |
| 4 | 30 |

Linear Topology:

|  |  |
| --- | --- |
| Number of concurrent Peers | Time taken to search and download(in msec) |
| 2 | 33 |
| 3 | 45 |
| 4 | 67 |

Clearly we can see that as the number of concurrent peers increases then the time taken to search and download a file for a Linear topology increases very sharply and we don’t make use of Linear topology practically because when one of the Super Peer in the network breaks down then the succeeding section of Super Peers will be disconnected from the network.