Test Cases

TestCaseID	Test Case Description	Expected Result	Actual Result	Status
1.	**Peers registering to the Index Server** a. Enter the port number on which the peer should run. b. Enter the directory path for files to be contained in the specified peer. c. Enter the ID for the peer.	The peer with the specified details should be registered on the indexing server.	Server registers and displays all the peers that are registered to it.	Pass
2.	Searching for a file in the Server a. Enter the filename that needs to be searched on the server.	The ID'S of the peers that contain the specified file should be displayed.	All the files that contain the specified files are displayed.	Pass
3.	Locating the peer having the searched file, connecting to it and downloading it. a. Enter the peer ID you want current peer to connect in order to download the searched file.	The file should be downloaded from the specified peer to the current peer and display a message once the download is complete.	The file is transferred from the connected peer as specified by the user to the current peer and a message is displayed once the download is complete.	Pass
4.	Calculating the Time taken when multiple clients are concurrently making request to the indexing server.	The Time taken to download a file from the server when one, two and three peers are running simultaneously is displayed.	Displays the response time taken to download a file from the server when one, two and three processes are running concurrently.	Pass

Performance Graph for Three Peers
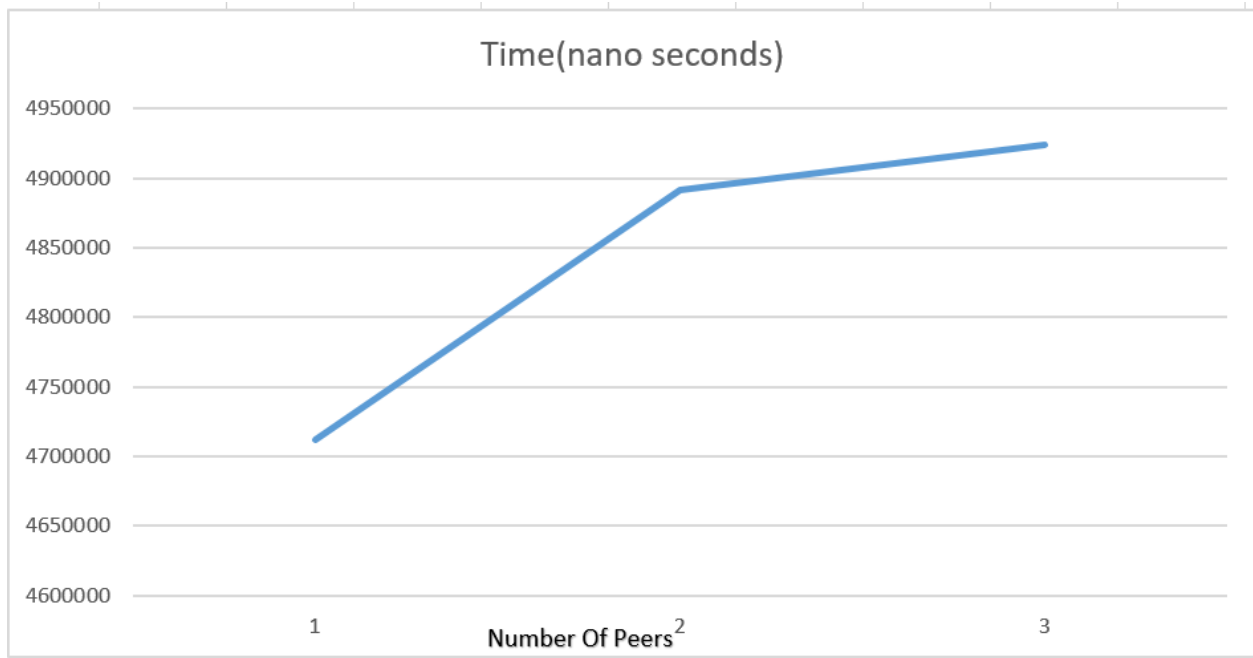
Performance for a Single Peer

Response Time is 1558ms

Average Response Time is1ms