**Evaluation Document**

**Register Evaluation:**

Register evaluation is performed by registering files in the peers one by one. Multiple files are registered in one peer followed by peers 1, 2 then peers 1-4 finally peers 1-8.

The amount of time taken is displayed in the graph below.

The more the number of peers the more time is taken to register with the index servers.

**Search Evaluation:**

Search test is performed by running 10K searches on peer1. Then peers 1,2 are run in parallel followed by peers 1-4, finally all 8 peers are run in parallel.

The time taken in each test is displayed in the graph below.

The more the number of peers running in parallel the more the amount of time it takes to perform the search.

**Download Evaluation:**

Download of files of size 10KB are performed. Files are first downloaded from one single peer to another. Followed by download of files from peers 1, 2 then peers 1-4 then finally peers 1-8.

The time taken for download is displayed below.

We conclude that as the number of peers trying to download the file increases, the time taken for the download also increases.

Also the time taken also depends on the size of the file.