**Peer to Peer File Sharing**

**Abstract**

**Description:**

Peer-to-peer file sharing is the distribution and sharing of any type of media using Peer to Peer (P2P) networking technology. P2P allow users to access media files such as books, music, movies, and games using a P2P software program that searches for other connected computers on a P2P network to locate the desired content. The nodes (peers) of such networks are end-user computer systems that are interconnected through the Internet.

This Project is about file sharing from Peer to Peer. Here files can be of any type like either an audio clip, Video clip or a Text.

**Protocol :**

Here Transmission Control Protocol (TCP) is being used. File transferring can be audio ,video or text file.

**Server:**

The Server requests chunks of data form the Clients. After receiving the chunks of data from different Clients the Server uses Bit Torrent to combine them together to form a complete one.

**Client**:

One Client sends a part of the data whereas the other client sends the other part of the data to the requested Server. The Client in other words is sending chunks of data to the Server.

**Test Cases:**

1. Connection establishment between client and server.

2. Receiving and sending files.

**Software :**

* Eclipse
* Bit Torrent