Three Phase Commit

* The zip file contains lab3 folder and the readme(this) file.
* There is src folder inside lab3 which contains 5 java files.
* Server - This file contains entire code of the server.
* Client,1,2 - This file contains entire code of the client.
* Coordinator- This file contains entire code of coordinator
* Server.txt file is used to maintain the communication taking place in clients. As this file has been a local path in the code, the path can be altered to see the working functionality. Although I have provided a sample conversation between 4 clients logged by the server. This text file can be opened in WordPad for better readability of file.
* Server.java file must run first followed by three Multiclient java file then Coordinator.java will run.
* Some of the parameters in this have been statically defined to achieve http format.
* Timer is of 30 seconds and commit or abort is requested within that interval. To start a new transaction the program must run again.
* Whenever any client sends “logout” message, the client is removed from active client list and the message is broadcasted to other active clients in the network.
* Comments have been provided for Server Coordinator and one client for better understanding of the code.
* Coordinator crashing functionality works when executed in a specific order.

References-

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Mahrsee, Rishabh. "Multi-Threaded Chat Application." GeeksforGeeks, 17 June 2017, www.geeksforgeeks.org///Pseudo-code from Chapter 8 of Textbook

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Pseudo-code from Chapter 8 of Textbook

Referred Textbook for 3PC protocol