**DSLAB2\_WriteUP**

**Steps to run the Code.**

--Using NetBeans IDE8.2

-In Projects explorer :

1.Expand Source Packages-> Expand dslab1 package ->Right click on ChatSever.java ->Click on Run File.

2.Then Right click on ChatCoordinator.java file and click on run file.

3.Then Right click on ChatClient.java file and click run file.

(Run the ChatClient.java file thrice for 3 participants)

**Assumptions:**

1.Server is always executed before client.

2.Coordinator crashes on force termination closing.

3.Hardcoded HTTP formats for messages (GET/POST method) referring the James ,Marshall file.

**Limitations:**

1.Keeping participants static that is code is handling COMMIT decision only for 3 participants

**Note:**

**-Lab is build on lab1 code so have carry forwarded the references for the same as some part of code will match the references [4] and [5].**

**-Have mentioned all the links referred to write the code in the writeup as well as code along with citations.**

-File does not get explicitly created with the code supplied with project material. The chat.txt file is present in DSLab1 folder. Open the chat.txt file in wordpad or notepad++ to visualize the proper indentations.

**REFERENCES :-**

1. “How to Append Text to an Existing File in Java?” Recalll, recalll.co/ask/v/topic/How-to-append-text-to-an-existing-file-in-Java/59f8df3a1126f45d1f8b5ebc.
2. Marshall, James. “HTTP Made Really Easy.” HTTP Made Really Easy, 10 Dec. 2012, www.jmarshall.com/easy/http/#http1.1s3.
3. Mkyong. “How to Calculate Date and Time Difference in Java.” How to Calculate Date and Time Difference in Java, 25 Jan. 2013, www.mkyong.com/java/how-to-calculate-date-time-difference-in-java/.
4. Mahrsee, Rishabh. “Multi-Threaded Chat Application in Java | Set 1 (Server Side Programming).” GeeksforGeeks, 17 June 2017, www.geeksforgeeks.org/multi-threaded-chat-application-set-1/.
5. Mahrsee, Rishabh. “Multi-Threaded Chat Application in Java | Set 2 (Client Side Programming).” GeeksforGeeks, 17 June 2017, www.geeksforgeeks.org/multi-threaded-chat-application-set-2/.
6. R, Hannes. “Getting Date in HTTP Format in Java.” Stack Overflow, 27 Jan. 2015, 8:13, stackoverflow.com/questions/7707555/getting-date-in-http-format-in-java.
7. “Custom Countdown Second Timer.” *Java - Custom Countdown Second Timer - Code Review Stack Exchange*, codereview.stackexchange.com/questions/118669/custom-countdown-second-timer.
8. Oracle. “ Copyright (c) 2002, Oracle and/or Its Affiliates.” *Moved*, docs.oracle.com/javase/7/docs/technotes/guides/lang/Countdown.java.
9. Jenkov, Jakob. “Java Regex - Matcher.” *Jenkov.com*, tutorials.jenkov.com/java-regex/matcher.html. **---group function**
10. Oracle. “Pattern.” *Pattern (Java Platform SE 7 )*, 19 Dec. 2017, docs.oracle.com/javase/7/docs/api/java/util/regex/Pattern.html.
11. Javatpoint. “Java Regex | Regular Expression - Javatpoint.” *Www.javatpoint.com*, [www.javatpoint.com/java-regex](http://www.javatpoint.com/java-regex).
12. mkyong. “How to Read File in Java – BufferedReader.” *How to Read File in Java – BufferedReader – Mkyong.com*, 1 Dec. 2008, [www.mkyong.com/java/how-to-read-file-from-java-bufferedreader-example/](http://www.mkyong.com/java/how-to-read-file-from-java-bufferedreader-example/).
13. Vogel, Lars. “Quick Links.” *Vogella.com*, 26 Sept. 2016, [www.vogella.com/tutorials/Logging/article.html](http://www.vogella.com/tutorials/Logging/article.html).
14. Jenkov, Jakob. “Java Logging.” *Jenkov.com*, 23 June 2014, tutorials.jenkov.com/java-logging/index.html.
15. Steen, Marteen Van, and Andrew S Tannenbaum. “Distributed Systems.” *Distributed System Edition 3*, 2017 **(Distributed System Edition 3 Book mentioned in lab manual-Pg 487 and 488 pseudo commit of 2PC)**
16. mkyong. “How to Write to File in Java – BufferedWriter.” *How to Write to File in Java – BufferedWriter – Mkyong.com*, 2 June 2010, www.mkyong.com/java/how-to-write-to-file-in-java-bufferedwriter-example/.