Kris Hayes

CST-213

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Dr. Chicone

Short Assignment 6:  Simultaneous read and write to a file

Link to GitHub repository: <https://github.com/jaymeshaze/ShortAssignment_6>

Approach to Design and Implementation

This is a simple program that creates 2 threads, an EventThread and a LogThread. The EventThread outputs the numbers 1 through 4 in 500ms intervals to the console. The LogThread is created and tracks EventThread, running while it is still active (or isAlive() is true) and prints the ArrayList created in EventThread to a log.txt file.

Utilizing threads for this event and log generator helps prevent read/write exceptions from being thrown. Both threads can run simultaneously. The event log is generating the console output and writing to the ArrayList, while the Log thread is reading the ArrayList nad outputting to a text file. Because the only object that is accessed by both is the ArrayList, and the LogEvent is accessing through a method in the EventThread class, there should be accurate information passed at all times.

My specific program is not creating the text file output, however, it is also not throwing an exception. If the file is not accessible or created properly, the LogEvent class should print to the console that the thread was interrupted, but that is not occurring. I am not sure if the file is not being created in the source folder, but the exception is not being thrown. I have been unable to successfully troubleshoot why the file is not being created. Besides that, the threads are both operational and throw no exceptions from accessing the same ArrayList. If the file creates successfully, the PrintWriter would be able to write the contents without error.