Java & Haskell

Resources: for API documentation and Concurrency Tutorial. Cut and paste from these is allowed.

https://docs.oracle.com/javase/8/docs/api/ https://docs.oracle.com/javase/tutorial/essential/concurrency/

- 1. Look at the available methods in the Thread class. Is there a method that will let a thread sleep? How do you call it? [Beware of the exception.]
- 2. Create a Java class that derives from the Thread class. The run method of the class should write something to the screen, sleep for a little while, and then write something to the screen again before finally returning.
- 3. Same as previous but as a class that implements the Runnable interface.
- 4. Write Alava program that create Doo thread from each of the classes above and then starts them both. The program should wait until both threads have finished before ending.
- 5. Create a Coun**pertus** using entity of the equation invested that has a private (static) tally, a public get Value method that returns the current tally, and whose run method increments the tally 10⁷ times.
- 6. Run two Count the advirtable William William to the both threads have terminated?
- 7. Repeat 2 in Haskell. That is, create and run a Haskell thread that prints, sleeps and prints before exiting. You will need to import Control. Concurrent and for sleeping you need threadDelay.