CSSE 220 Day 27

More with Threads

Checkout *WebpageMonitor* project from SVN

Things we've seen

- To use Threads in Java we must
  - Have a class that implements Runnable
  - Create a new Thread, pass an instance of the Runnable class and call the start() method on the new Thread.
- The many uses of threads
- Maybe a little where threads go wrong

What about?

- What about when many threads need to get data back to one source?

- What about when threads need to share data between each other?

- What about when threads need to finish before another thread starts?

- …

So much… But.

- We'll only worry about the 1st question today and in 220.

- For answers to the other questions, you'll want to take further CSSE classes.

WebpageMonitor

- We want many monitors running at once getting updates from webpages, but each should not immediately print out to the screen as something happens
  - If a threaded monitor gets data, add it to a "queue" and return to work monitoring that page!
  - We then also need a thread to monitor just this "queue" and ask the user what to do with each update if something is in it

- The full description of this program is in the project named "Webpage Monitor.docx"
- When you get to the "Synchronized List" part, you can use:

List<Pair> resultQueue = Collections.*synchronizedList(***new***

ArrayList<Pair>());

- Feel free to work on this with a partner
- Get help if stuck!

Work time

Be sure everyone is getting a chance to drive.

TEAM PROJECT