Assignment 0908
This assignment starts up your reading for this course, and seeks to get your feet wet with taking and recording some of the established usability metrics.

Outcomes
This assignment will affect your proficiency measures for outcomes 1c, 2b, and 2c.

Not for Submission
By September 6
1. Read Chapter 1 in Shneiderman/Plaisant.
2. Read Nielsen Chapter 2.
3. Use the (long) weekend to perform the activities on the right, and record the necessary data. This way, you can focus on writing your report during the week.

For Submission
With your class-assigned teams, record some usability metrics for a platform-native GUI calculator, the command-line bc calculator, and a physical calculator. Report your conclusions individually.

1. First, spend some time with the three types of calculators. Make sure that you spend enough time so that you feel fairly confident that you know how they work.

2. Perform the following calculations on each system, making sure to record the answers that you got. Every team member should take turns as the “user” and the “timer/recorder,” to maximize the sample size. Repeated runs can also be done if desired. Type out your calculations every time — do not copy and paste, please (presumably you can see why not).
   - $5 + 5 + 5 + 5 + 1 = 21$
   - $(5 + 3) * 2 * 2 * 2 = 64$
   - $(8 / 4) + 9 − 1 = 10$
   - $9999 − (256 * 2 / 8) = 9935$
   - $1000 / 10 / 10 = 10$
   - $(0.75 + 0.25 − 1.5) * 2 = -1$
   - $5.9891 + 94.0109 = 100$
   - $((32 + (12 * 4)) / 4) − 20 + 30 = 30$

3. Record the following information:
   - The total time to perform the calculations
   - Any mistakes made, including, but not limited to, incorrect answers, backspacing, mistaken mouse clicks, or repetitions

4. Write up a report that presents your recorded results. State your subjective levels of satisfaction with each calculator type after all this is done. Based on this information, state and explain your choice for which user interface you think is “best” for a calculator.

Submit the report on hardcopy — but of course, keep the file for the portfolio.