Lab 2 – Arithmetic

A Version

Write an application that asks the user for 2 numbers, then displays the sum, difference, quotient and product of the 2 numbers. Use either the Scanner or JOptionPane class for input and output. Display the results as doubles for greater precision, which will also allow for dividing by zero! For consistency, divide the second input number into the first and subtract the second input number from the first.

B Version

For a greater challenge, but no extra credit, you may add this feature to the A version of the assignment.

By default, doubles are displayed to 15 decimal places, so a repeating quotient would look like this:

\[
2 / 3 = .6666666666666666
\]

To improve the readability of the output, format the results to two decimal places. Look at next week’s reading, ch. 3.10, to learn about the DecimalFormat class.

To Hand In:
1. Cover sheet (complete the top half)
2. Logic Diagram
3. Printout of your source code

To Upload:
1. CS111ALab2.html
2. Lab2.class

Follow the directions in the Internet handout for uploading these two files to your public_html directory on hills.
Here is a sample output of version A using the JOptionPane class: