

Individual Activity - Convert your double calculator to UNumber calculator

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Activity Kind

Individual activity

Purpose

The purpose of this activity is move from work with double values to values based on the UNumber Class.

Pre-requisite

Students are expected to have completed all of the requirements for the third week's calculator.

Tasking

As you do the following, be sure to log what you have done and capture any unusual results and capture evidence of your accomplishments.

Add the UNumber Library into your calculator project by creating a uNumberLibrary package inside of your projects src folder. Inside of the uNumberLibrary package, establish a copy of the uNumber.java source file.

Modify the CalculatorValue class so that it uses UNumber values as opposed to double values for **both** the measured values and the errorTerms.

Now begin a systematic process of finding and removing all of the errors by replacing the code that only works properly with doubles and replace that code with the appropriate code for UNumbers from the uNumber library or methods that you must write. As you make changes, make notes of things that you see that you know you will need to change, so you don't forget them. (As always, log this information into you ENB.)

When all of the compiler errors have been removed, perform a walk-through of the entire program and convince yourself that all of the changes required have been made. When you have achieved that, compile, run, and test this conversion. Do not try to add in all of the required new features. We will iterative address those later. Focus now on duplicating the functionality achieved with doubles.

When it appears your conversion is finished, go back over the whole program and update the internal document so that it properly reflects the current state of the calculator and properly specifies you as an author for any source file that you have authored.

Deliverable

Students are responsible for capturing their accomplishments, insights, doubts, problems, and concerns in the ENB.

Submission

Each student must produce and submit the ENB submission prior to midnight.