Individual Activity - Enhance the Double Calculator's User Interface using the Java FPR

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Activity Kind

Individual activity

Purpose

The purpose of this activity is to build further upon the previous activities and to enhance the error message capability of the calculator.

Pre-requisite

Students are expected to have done:

- Group Activity - How to implement an FSM using Java
- Individual Activity - Implement an Error Term Recognizer (ETR) using Java

Tasking

Each individual expected to leverage the above listed experiences with the testbed in order to improve the calculator's user interface[1]. Use the `MeasuredValueRecognizer` class from the testbed, but use the calculator's `UserInterface` class and alter it so it uses the `checkMeasuredValue()` method to check for valid input the same way the testbed does as opposed to the `Scanner` class methods `hasNextDouble()`. If it is valid, then use the `Scanner` class method `nextDouble()` to convert the string into a double.

Deliverable

You are expected to create a zip archive of your solution's Eclipse project (using your name and role number) and save it along with any evidence required to show that your implementation is working in your ENB. You are also expected to take notes into your ENB explaining what you did as you did it, the issues you found and then overcame, etc.

Submission

Submit the archive prior to the end of this activity. You must produce and submit your ENB by the end of the day, but why wait to capture the notes? The longer you wait, the harder it will be for you to remember what you did and the important details!

[1] Do **not** replace the calculator's `UserInterface` class with the testbed's `UserInterface` class. The testbed is designed help you experiment with JavaFX and new user interface ideas. You should not use it in your calculator as it has things your calculator does not need and is does not have things that are required.