Graphing Calculator

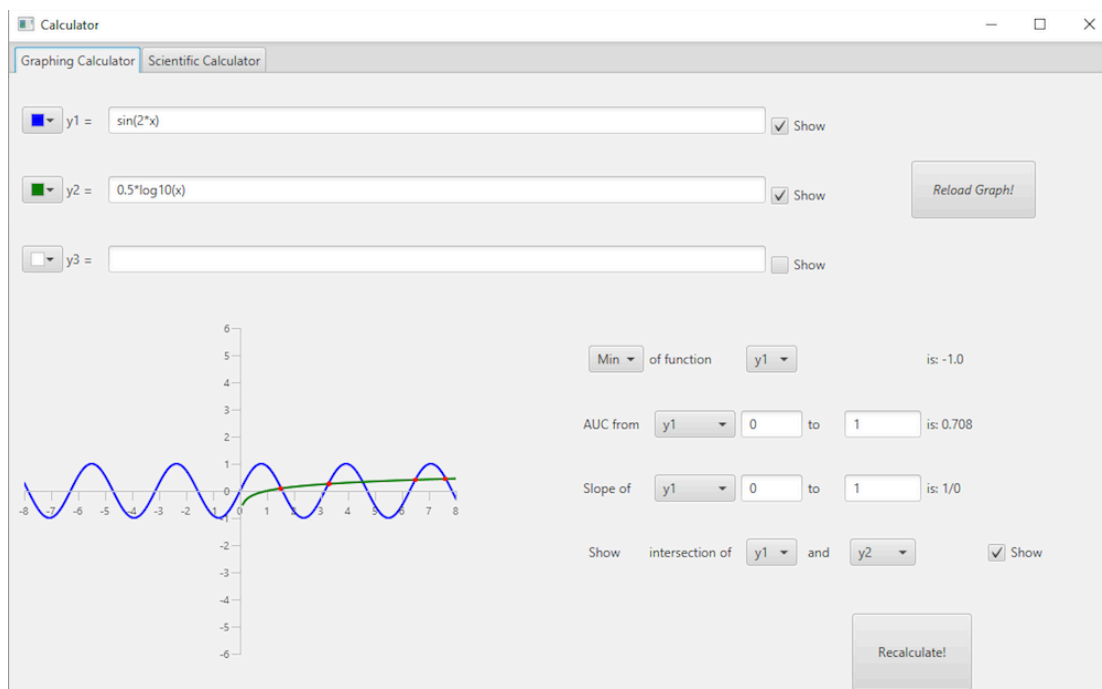*Author: Ekaterina Nikonova*

User Documentation

Getting started

Before we begin please make sure you have Java and Ant installed on your computer and environment variables **JAVA_HOME** and **ANT_HOME** are properly set up.

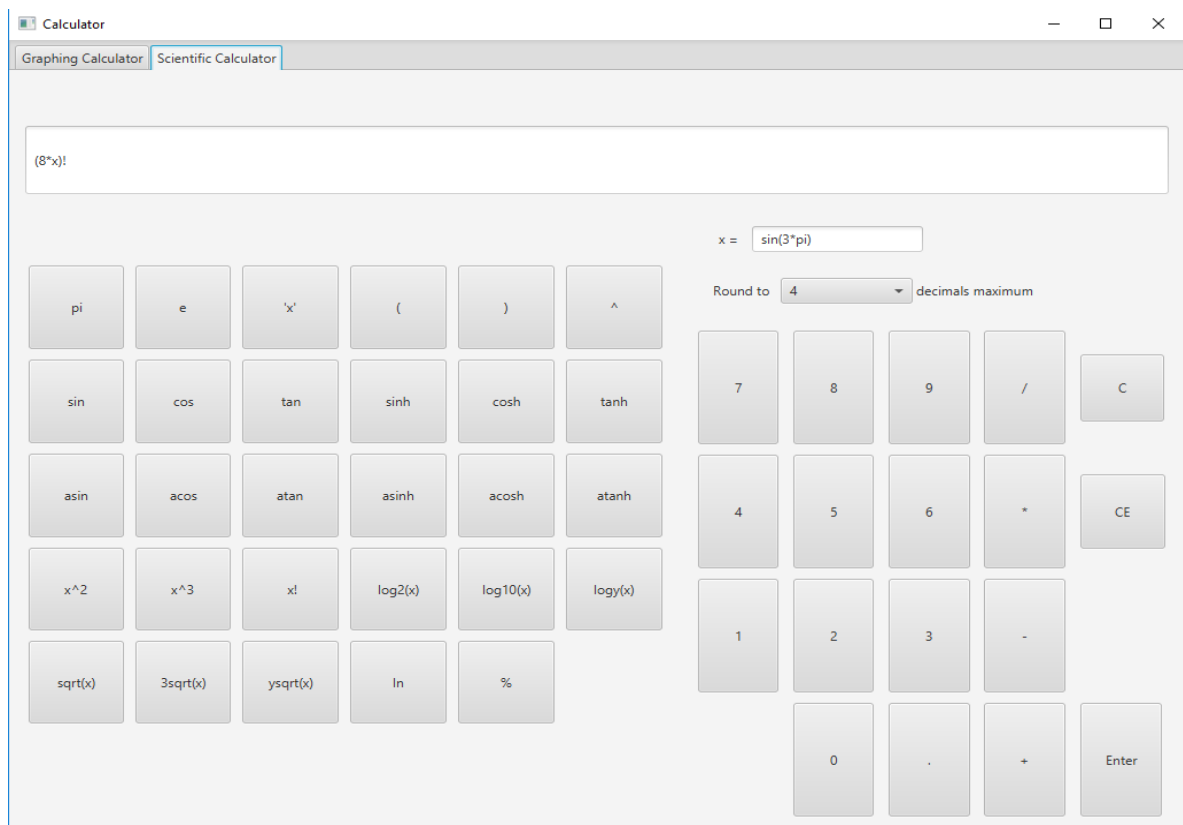To build the program please follow these steps:
1. Open command line
2. **cd** to /%YOUR_PATH%/Graphing Calculator/
3. Now build the project by running this command:
   `ant build`
4. Once the build was successfully finished you can run the program by executing:
   `ant run`
5. To generate javadocs run: `ant javadocs`

Graphing Calculator

On this screen you can plot up to three functions and calculate some desired properties of them. On lower right area on the screenshot above you can find minimum and maximum of the function, area under its curve (AUC), its slope, and show or hide the intersection points between selected functions. To display new graphs or recalculate the properties of functions click on **Reload Graph!** button and **Recalculate!** button respectively.

Scientific Calculator

On this screen you can use scientific calculator to evaluate some mathematical expressions. It supports one custom variable calculations and different rounding of the result.

- To clear the calculator field, click on **C** button;
- To delete one character click **CE** button;
- To evaluate the expression click **Enter** button.
- To change 'x' value, type the desired value in text field on the right side of "x =".