TOPTAL Calculator

Introduction

This project is part4 of the interview for joining Toptal.

Specification

Text of the task is given in the file **task.txt**

Technology

Calculator is implemented in Scala programming language. ScalaFX library was used for Calculator's GUI implementation and sbt for project building.

Requirements

- Java 8
- ScalaFX 8
- Scala 2.11
- sbt 0.13.8

Run calculator

Enter the project folder and type:

```
sbt run
```

Tests

Tests are located in folder **/src/test/scala-2.11**, For running all tests enter the project folder and type:

```
sbt test
```

Library dependencies

- scalatest - test driven development
- scalafx - modern library for GUI
- scala-logging - for logging

More details about project libraraies (e.g. version etc..) can be found in file **build.sbt**

Logs

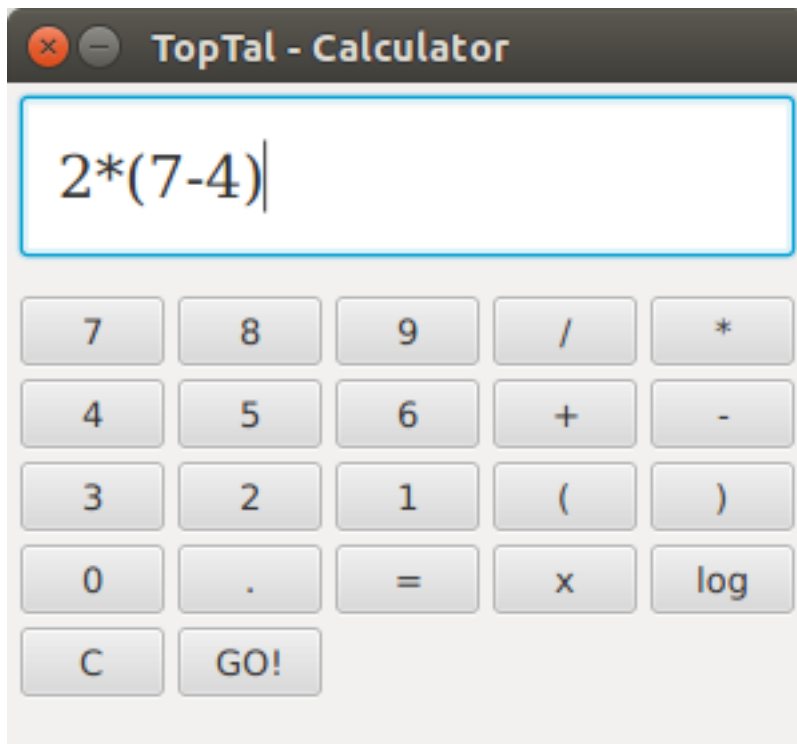Logs are located in **logs** folder. Log settings are located in **resources/logback.xml**

ScalaDocs

ScalaDocs can be generated by entering project folder and typing:

`sbt doc`

ScalaDoc will be generated in folder **scalaDoc**. Open file **index.html** in browser in order to start browsing projects documentation
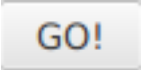
Using a calculator

After running calculator will show up in the center of the screen as shown on the next image:

Buttons

Here's the list of the available buttons:

- to are numbers

-   are used for linear equation

- clear, delete all

-     operations

- ![log] logarithm

- ![(] ![)] brackets

- ![.] point for floating point numbers

- ![GO!] calculate!