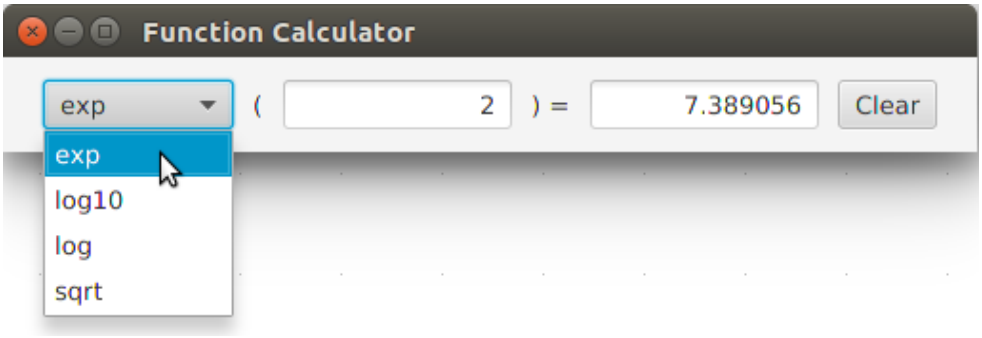
Quiz 5 Name: _____

. ID: __ __ __ __ __ __ __ __ __ __

Create a JavaFX application that evaluates a function. The UI should look similar to the image below. You can create the UI using SceneBuilder or by writing Java code (or both).



Behavior:

1.1 When user presses ENTER in left input field, evaluate the function and display the result in right field.

Optional: when user selects a function from the combobox and input field is not empty, evaluate the function immediately and display result.

1.2 User **cannot type** in the field on the right side.

1.3 Include these Math functions: exp, log10, log (natural log), and sqrt. (Use Strings in combo box.)

1.4 Never throw exception or print on the console -- unless the graphical UI cannot by shown. If the input value is invalid, just display an empty string in result field. (This is a *cheap* function calculator.)

Appearance:

2.1 Leave some space between fields and around the edges of window, as in the image above.

2.2 Numbers are **right-aligned** in their fields. This is done by the fields themselves, not by writing code to add space to strings.

2.3 The window title bar reads "Function Calculator".

What to Submit

Submit your code to Github classroom. The assignment URL is given during the quiz.

The Github repository is empty. Hence, you can create your local project first, then do "git init", "git add ..." to add files, and "git remote add origin ...". then add Github as remote "origin".

Your repository URL will be similar to this: `https://github.com/OOP2018/quiz5-yourlogin`

`Use git commands to submit your project, not file upload.`

ComboBox Syntax:

ComboBox<T> comboBox - a ComboBox containing objects of class T.

comboBox.getItems().add(T item) add an item to a ComboBox

comboBox.getItems().addAll(T item1, T item2, ...) add multiple items to a ComboBox.

comboBox.getSelectionModel.select(n) - show item #n in the ComboBox.

T comboBox.getValue( ) - get the selected item

Programming without "if" or "switch" (optional, for the curious):

```
String func = "sqrt";        // name of method we want to call
Class<?> math = Math.class;
Method m = math.getDeclaredMethod( func, double.class /* parameter */);
// compute func(2.0), i.e. sqrt(2.0)
```

```
double result = (double) m.invoke(null, 2.0);
```

Github URL for Quiz

https://goo.gl/J2Z3pE

** Repository is Empty **

Full URL: **https://classroom.github.com/a/zuxmmh1x**

```
cd workspace/myquiz5
git init
cp  ../quiz3/.gitignore  .gitignore
git add .gitignore   (optional)
git add src
git commit -m "initial code checkin"
git remote add origin
     https://github.com/OOP2018/quiz5-xxxx.git
git push -u origin master
```