Lab 8

User-Defined Methods

Objectives of this Lab:

- 1. Introduce you to the basic use of methods.
- 2. Get experience with defining and implementing methods

Test Review

Your TAs will begin today by going over the test you took last week. They will answer your questions.

Eclipse

You will work with your TAs on this first Lab and submit to the area in GitHub: https://classroom.github.com/a/iAsPIppX

Getting Started

- 1. Create a new project in Eclipse called ReverseCase, and a new class called ReverseCase.
- 2. You should have a main method, for now, don't put any code in it.
- 3. The TA will show you how to create and test the method below.
- 4. Show the results of the test to your TA and submit to GitHub via the link above.

Write a method to reverse the case of a string

- 1. Add a new method called revCase with the following format:
 - It is a public method, so "anyone" can call it.
 - It is static, which means that it doesn't need an object to be called
 - It returns a String value to the calling function.
 - It takes one parameter of type String.
- 2. Precondition:

The String parameter is not equal to null.

- 3. Post condition:
 - The method returns the same String, but uppercase letters have been made lowercase and vice versa
 - Digits and special characters should not be changed.
- 4. You may want to use the Character wrapper class, which has methods such as isUpperCase(), isLowerCase(), toUpperCase(), and toLowerCase().
- 5. You must use a for or while loop to complete this method.
- 6. Test revCase in your main method.

Testing Methods

Anytime you finish writing a method, you should first test that it works before writing another. We can test ReverseCase in main by calling it with any value we choose, and comparing its return value with what we expect.