CST 8288 Object Oriented Programming

Lab #3

Purpose Explore passive-MVP (MVC) design pattern

Activity

Implement a GUI application:

- that calculates Shannon's Theorem.
- that implements the passive MVP design pattern.
- using the NetBeans IDE

Coding requirements:

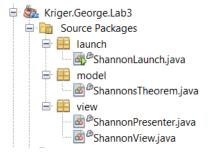
- Be sure to include **Javadoc** comments and other comments in your code.
- For the "model", you must use the class **ShannonTheorem** (provided)
- You must provide the code for:
 - o the "view" (e.g. ShannonView)
 - o the "presenter" (e.g. ShannonPresenter)
 - o the main() (e.g. ShannonLaunch)
- Hints:
 - See the example discussed in class:

SimplerLearnJavaFX-passiveMVP

- See the sample NetBeans project layout and the sample GUI pictured below.
- Notes:
 - o Project layout must make use of multiple packages.
 - Your solution does not have to match the sample GUI exactly. But it should have the following features:
 - A title in the titlebar,
 - 2 input fields, a read-only output field and a button for calculations.
 - Process incorrect input using exception handling and a popup dialog (e.g. Alert window)
 - Your solution can use either:
 - Non-private access to attributes in the "model" or
 - Properties and bindings ...
 - in which case, you will have to add the **Properties** to the "model"

- export your NetBeans project as a .zip
 - o name your file: Lastname.Firstname.Lab3.zip
 - o name your project and corresponding folder: Lastname.Firstname.Lab3
 - o (use your own names, of course)

Sample Project Layout:



Sample GUI:

