

Rutgers State University of New Jersey  
Department of Mathematics and Computer Science  
21:198:102/02: Computers and Programming II  
Spring 2024

**JavaFX Assignment: Part 1**

**Description**

Imagine that you own your own electronics store and you need to print out receipts for your customers. Come up with any 3 or more items that you would sell in your electronics store (smartphones, laptops, smartwatches, digital cameras, etc.) using JavaFX API. You can refer to the example source here:

- [Java Software Solutions Chapter 03 JavaFX.pdf](#) and
- [Java Software Solutions Chapter 04 JavaFX.pdf](#) .

The prices for each item should be displayed, the user can enter the quantity of each item he/she would like to purchase. The calculated subtotal, tax, and total after taxes should then be displayed using DecimalFormat or NumberFormat (including a "\$" and 2 digits after the decimal). Include a "Calculate" button to perform this action OR have totals calculated when the user presses the return key while in any of the text fields.

Below is a before and after example for a bakery shop GUI. Your GUI does not need to look exactly like this, this is an example only.

<b>Bagel (\$1.75)</b>	<input type="text" value="0"/>
<b>Muffin (\$1.25)</b>	<input type="text" value="0"/>
<b>Coffee (\$3.50)</b>	<input type="text" value="0"/>
<b>Subtotal:</b>	---
<b>Tax:</b>	---
<b>Total:</b>	---

<b>Bagel (\$1.75)</b>	<input type="text" value="3"/>
<b>Muffin (\$1.25)</b>	<input type="text" value="1"/>
<b>Coffee (\$3.50)</b>	<input type="text" value="2"/>
<b>Subtotal:</b>	<b>\$13.50</b>
<b>Tax:</b>	<b>\$0.81</b>
<b>Total:</b>	<b>\$14.31</b>

Be creative, display the background and text in different colors.

Execute your program at least 3 times with different input values as part of your assignment submission.

### **Submission Instructions**

- After you have completed and tested all source code changes and committed all changes to GitHub, create a "tag" for this part of your project. You may name the tag "24SP-102-Part1" or just "Part1" or any name you like that pertains to the set of changes for this phase.
  - [Managing tags in GitHub Desktop](#)
- Your source code repository must contain the following:
  - a folder containing all Java Source code
    - All source code must include proper comments including Name, Date, Subject and Assignment and each method should be commented.
    - Repository must contain all Java source files used to complete the assignment. Points will be deducted if code is missing or does not compile.
  - Another folder containing all screenshots
    - Only the following file types will be accepted: BMP, GIF, JPEG, JPG, PNG
    - All output must include Name, Date, Subject and Assignment.
    - Submit screenshots of all your program outputs testing your program
  - additional folder can be created depending on how your IDE project is organized

No email submissions will be accepted, all submissions must be completed through Canvas.

Work on this assignment should be done INDIVIDUALLY. Students who violate the Academic Integrity Policy will receive no grade on this assignment.