

Lab Assignment - 4

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Academic Integrity

What is allowed:

- Looking up **syntax** related to Java
- You can refer the code and classwork created in this course

What is **NOT** allowed:

- Searching for partial or full solutions of the main problem description
- Communication with others, either inside or outside the class
- Sharing of resources, including but not limited to code, files, links, computers, etc.

Instructions:

- This assignment is to be done individually.
- Besides implementing the required functionality submissions are required to use the correct coding conventions used in class, professional organization of the code, alignment, clarity of names is all going to be part of the evaluation.

Submission Checklist:

- Once you are done, write your name and student number at the top of each **.java** file.
- Compress your entire project folder into a **.zip** file. Your **.zip** file name must be **YourFirstName_Section#_Lab4.zip** such as John_17_Lab4. **Please don't submit .rar or .7zip file.**
- Take a **screen-recording video (.mp4 or .mov)** of your visual studio and terminal showing the execution of the code and output of the program. Create a screen recording even if you have errors. Upload the video in the submission folder.
- Your submission folder should have two individual files: 1) the zip file, 2) a screen recording file

Task:

In IntelliJ Idea, create a new project (**JavaFX** Application) named **YourFirstName_Section#_Lab4** (where YourFirstName is your first name, such as John_17_Lab4) to accomplish the following task.

You have been hired by your local grocery store to build a JavaFX application that records orders of customers. The app will enable the user to enter order details and generate a receipt indicating the total cost of their order.

- Your app should display your firstname and lastname in the title.
- Provide a **Label** that displays the name of the grocery shop of your choice.

Consider a list of at least 5 item names to be sold. Assume respective price for each item. For example, 1 pack of milk is \$4.

- Provide a **ComboBox** to allow the user to choose grocery item.
- Provide another **ComboBox** to allow the user to choose quantity (number of items).
- For example, user will first select milk and then quantity 2.
- User should be selecting each item one after the other. Store selected items and respective details for future use.
- Provide **TextFields** that allows the user to provide their name, phone number and address.
- Provide a **RadioButton** that enables the user to select if they want to pick-up the order or get a home delivery. By default, pick-up option is selected.
- Provide a **Button** titled "Place Order". The click on this button will gather all the details and display the receipt. The receipt will show the following information:
 - Name
 - Phone number
 - Address
 - Selected grocery items, their quantity and price
 - Order total (total of all items for each quantity)
 - Tax amount (10% tax on order total)
 - Shipping (\$ 0 for pick-up orders, \$5 for home-delivery)
 - Final cost (order total + tax + shipping)