

COM 150-03 Introduction to Computer Programming

Program #3 – The Egg Sandwich Shop

The purpose of this exercise is to create a program that allows the wait staff at The Egg Sandwich Shop to easily calculate a customer's total bill with tax based on their menu selection. The menu should include:

Drinks: Coffee, Tea, Hot Chocolate, Milk, Juice (customer can select multiple options)

Eggs: Scrambled, Over Easy, Sunny Side Up, Poached (customer can select ONLY one option)

Extras: Cheese, Bacon, Sausage, Ham, Veggies (customer can select multiple options)

Drinks are \$2.25, each egg order is \$6.95 and any extras are \$1.50 each. Make sure to calculate the total bill, showing the sub-total, tax, and total with tax as separate line items.

In this exercise, you will:

- Create an algorithm
- Add controls to a Visual Basic Form
- Declare and Assign values to variables and use a Constant Variable
- Practice Decision Making concepts and Controls
- Use If Statements and relational operators
- Use RadioButtons and Checkboxes to intake information
- Use a Listbox to Output Information

Instructions:

1. Before you code: Create the algorithm
 - a. Identify your inputs
 - b. Identify the steps in your process
 - c. Identify your outputs
2. Create new Visual Basic Windows Forms Application named 'TheEggSandwichShop' and save it to your i:drive.
3. Design your form adding the necessary controls. Play with the control properties to change colors/backgrounds.

4. Write the code to calculate the customer's total bill based on the options selected.
5. Output the contents of the customer's order along with the sub-total, tax and total with tax to a listbox.
6. Spruce up your form by adding a picturebox with a relevant image.
7. Save All, Compile and run your program
8. Upload the completed assignment to GitHub classroom.