

Lab 4: Intro to C#, Variables and Operators (Group B)

CS133, Beginning Programming: C#

Introduction

The objective of this lab is to give you more practice writing C# code. You'll get input, produce output, use variables and operators to do calculations. You'll also write event handlers.

Part 1 – Tutorials

Complete Tutorials 3-3 through 3-5 in the textbook.

Part 2 – Ch. 3 Programming Problems

9. Cookie Calories

A bag of cookies holds 40 cookies. The calorie information on the bag claims that there are 10 servings in the bag and that a serving equals 300 calories. Create an application that lets the user enter the number of cookies he or she actually ate and then reports the number of total calories consumed. (Gaddis 194)

11. Automobile Costs

Create an application that lets the user enter the monthly costs for the following expenses incurred from operating his or her automobile: loan payment, insurance, gas, oil, tires, and maintenance. The program should then display the total monthly cost of these expenses and the total annual cost of these expenses. (Gaddis 194)

13. Property Tax

If you own real estate in a particular county, the property tax that you owe each year is calculated as 64 cents per \$100 of the property's value. For example, if the property's value is \$10,000, then the property tax is calculated as follows:

$$\text{Tax} = \$10,000 \div 100 \times 0.64$$

Create an application that allows the user to enter a property's value and displays the sales tax on that property. (Gaddis 195)

Gaddis, Tony. *Starting out with Visual C# 2012, 3rd Edition*. Pearson, 20130528. VitalBook file.

Files to Submit to Moodle

- A document containing screen-shots of each tutorial application running (label each screen-shot).
- A document containing screenshots of the applications you wrote for the Programming Problems running (label each screen-shot).
- Zipped VS solution folders for each problem.
- The completed code review form for your lab work.
- A copy of the code review you gave to your code review partner.