

## Programming Assignment #2

Sell Your Book Online!

CS 1428.254, Spring 2012

Instructor: Jill Seaman

**Due: in class Tuesday, 2/7/2012** (upload electronic copy by 9:00am)

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### Problem:

You just sold a used textbook on nuBay.com and you want to know how much your profit will be. Write a C++ program that will calculate the profit.

**Input:** The user should be prompted to input the selling price of the book and how much it weighs, in pounds (ask the user to round the weight up to a whole number greater than 0).

**Processing:** nuBay gives the seller a shipping reimbursement of \$3.99 when a book is sold. nuBay takes a commission of 15% of the selling price of the book. The payment is processed by a site called feeBuddy.com, which takes 2.9% of the selling price of the book AND the shipping reimbursement together. The shipping cost is \$2.05 plus 42 cents per pound (so a 2 pound book costs 2.89 to ship). The revenue is the selling price of the book and the shipping reimbursement. The expenses include the two commissions and the shipping cost. Your profit is the revenue less the expenses.

**Output:** The program should print the amount of the nuBay commission, the amount of the feeBuddy commission, the shipping cost, and the profit for the book. All output should be clearly labeled and easy to read. Dollar amounts should have a dollar sign and be formatted to show two decimal places.

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### Style:

- Appropriate values should be stored in named constants.
- Each variable must be declared on a separate line with a brief comment following the declaration.
- Use meaningful variable names.
- See the Style Guidelines on the website for specific details

### Logistics:

Your program must be free of compiler errors.

Include the following header at the top of the source code file (add your name, date and assignment number)

```
// File Name:  
//  
// Author:  
// Date:  
// Assignment Number:  
// CS 1428.254 Spring 2012  
// Instructor: Jill Seaman  
//  
// <Brief description of the contents and purpose>
```

Name your file **assign2\_XXXXX.cpp** where XXXXX is your TX State NetID (your txstate.edu email id). The file name should look something like this: assign2\_js236.cpp

There are two steps to the turn-in process:

1. Submit an electronic copy using the upload link on the course webpage (or go directly to <https://hwupload.cs.txstate.edu>)  
**by 9:00am, Tuesday 2/7/2012**
2. Submit a printout of the file at the **beginning of class on Tues 2/7/2012**.  
Please print your name on the front page, staple if there is more than one page.