

Programming Assignment #2

Sell Your Book Online!

CS 1428.004, Fall 2011

Instructor: Jill Seaman

Due: in class Friday, 9/16/2011 (upload electronic copy by 9:30am)

Problem:

You just sold a used textbook on fBay.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 (a whole number greater than 0).

Processing: fBay gives the seller a shipping reimbursement of \$3.99 when a book is sold. fBay takes a commission of 15% of the selling price of the book. The payment is processed by a site called feefriend.com, which takes 2.9% of the selling price of the book AND the shipping reimbursement. The shipping cost is \$2.00 plus 41 cents per pound (so a 2 pound book costs 2.82 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 fBay commission, the amount of the feefriend 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.

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.

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 1428.004 Fall 2011  
// Instructor: Jill Seaman  
//  
// <Brief description of the contents and purpose>
```

Name your file **assign2_xxxxxxxx.cpp** where xxxxxxxxx is your 9 character TX state ID number, the one that is on your ID card. It should look something like this: A04123456. If yours is just six digits, then add "A00" to the front.

There are two steps to the turn-in process:

1. Submit an electronic copy using the following upload link
by 9:30am, Fri 9/16/2011: <http://www.cs.txstate.edu/~js236/homework>
(There is a link directly to this page on the course website).
Click on CS1428.004, and log in with your Net ID and follow the directions to upload your file.
2. Submit a printout of the file at the **beginning of class on Fri 9/16/2011**.
Please print your name on the front page, staple if there is more than one page.