

Lab 2

Goal: The purpose of this lab is to get comfortable beginning to solve problems using Java.

Fenwick Books has asked you to create a program to help calculate a receipt for books purchased. The program should take in the number of books ordered and the total price of all books as user input. Then, the program should perform the following calculations:

- Calculate the sales tax associated with the book order based on a rate of 6%
- Calculate the cost of shipping (\$1.50 per book)
- Calculate the grand total cost of the order, including shipping and tax

Finally, the program should nicely print a receipt containing the number of books purchased, the total price of all books, the sales tax, the total cost of shipping, and the grand total cost of the order.

All printed dollar amounts should be formatted to two decimal places.

The example run below shows how the program would run. Note, user input is denoted in **orange**.

Enter the number of books purchased:

3

Enter the total price of all books:

106.10

****Fenwick Books – Receipt****

Number of Books Purchased: 3

Total Price: \$106.10

Sales Tax (6%): \$6.37

Shipping: \$4.50

Grand Total: \$116.97

Note: For input/output, use the JOptionPane class.

Hint: Remember Integer.parseInt and Double.parseDouble from the lecture notes when gathering input and String.format for outputting dollar amounts!