


2.08 Assignment Instructions

Instructions: Write a program to convert currencies using current exchange rates. Find the amount spent by Mademoiselle Jacquard in each country and the dollar amount remaining upon her return. Also calculate the quantity of souvenirs that can be purchased on a particular budget.

1. Create a new project called 2.08 Currency Conversion in the Mod02 Assignments folder.
2. Download the CurrencyConversionV1.java file to the newly created project. Use this class as a starting point and modify it to produce the desired output.
3. When you first compile and run the program the results will be incorrect since the necessary calculations are not provided. That's your job!
4. Modify the program to convert among the currencies of the countries listed in Mademoiselle Jacquard's travel itinerary. All of her travel, lodging, and meals were paid in advance. She left the United States with \$5000.00. She spent the equivalent of 7210.25 pesos in Mexico, 99939.75 Yen in Japan, and 624.95 Euro in France. Convert the values to discover how many US Dollars she spent in each location and how much she returned with to home.
5. Up-to-date currency exchange rates can be found at sites such as the following.
 - ☐ [Bank of America](#)
 - ☐ [ExchangeRate.com](#)
6. These sites also provide currency exchange rate calculators which can be used to verify the output of your program. Include the name of the site you use and its URL address in the Post Mortem Review for this assignment.
7. Complete the code for the souvenirs purchases by replacing the 0's for totalItem and fundsRemaining with the proper equations. You will need to use casting, division and modulus. (Do not use multiplication or subtraction.) Remember, only whole items can be purchased, not partial items. At this time, do not worry about extra decimal places for the funds remaining.

Algorithmic Thinking: There is often more than one way to write a program to solve a problem. It depends on your perspective, and your algorithmic thinking. Choose the algorithm that makes sense to you.

Expected Output: Remember that your results may differ slightly due to fluctuating exchange rates.

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This program converts an amount of money
from a specific country into the equivalent
currency of another country given the current
exchange rate.
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Starting US dollars:          5000.0
US dollars spent in Mexico:   650.34291925
US dollars spent in Japan:    863.5563936075001
US dollars spent in France:   852.7067780000001
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Remaining Us dollars:         2634.7250964813206

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Souvenir Purchases
(all values in US Dollars)
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Item 1
  Cost per item: $4
  Budget: $50
  Total items purchased: 12
  Funds remaining: $2
Item 2
  Cost per item: $32.55
  Budget: $713
  Total items purchased: 21
  Funds remaining: $29.450000000000006
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