

Variables Coding Challenge

Directions:

- Proper naming of Variables
- Print sentence(s) that output all the variables used in the sketch.
- No comments needed for the coding challenge

1. Restaurant Bill

Write a sketch that computes the tax and tip of a restaurant bill. The sketch should ask the user to enter the charge for the meal. The tax should be 7% of the meal charge. The tip should be 15 % of the total after adding the tax. Display the meal charge, tax amount, tip amount, and total bill on the screen.

2. Energy Drink Consumption

A soft drink company recently surveyed 12,467 customers and found that approximately 14 percent of those surveyed purchase one or more energy drinks per week. Of those customers who purchase energy drinks, approximately 64 percent of them prefer citrus-flavoured energy drinks. Write a sketch that displays the following:

- The approximate number of customers in the survey who purchase one or more energy drinks per week.
- The approximate number of customers in the survey who prefer citrus-flavoured energy drinks

3. Kilograms to Pounds Converter

Write a sketch that converts 10, 50 and 100 kilograms to pounds (1 pound = 0.454 kg)

4. Inches to Millimeters Converter

Write a sketch that converts 2, 5 and 10 inches to millimeters (1 inch = 25.4 mm)

***** One more sketch to write. See the next page. *****

5. Stock Transaction Program

Last month Joe purchased some stock in Acme Software, Inc. Here are the details of the purchase:

- The number of shares that Joe purchased was 1,000
- When Joe purchased the stock, he paid \$32.87 per share
- Joe paid his stockbroker a commission that amounted to 2% of the amount he paid for the stock

Two weeks later Joe sold the stock. Here are the details of the sale:

- The number of shares that Joe sold was 1,000
- He sold the stock for \$33.92 per share
- He paid his stockbroker another commission that amounted to 2% of the amount he received for the stock

Write a sketch that displays the following information:

- The amount of money Joe paid for the stock
- The amount of commission Joe paid his broker when he bought the stock
- The amount that Joe sold the stock for
- The amount of commission Joe paid his broker when he sold the stock
- Display the amount of profit that Joe made after selling his stock and paying the two commissions to his broker. (if the amount of profit that your sketch displays is a negative number, then Joe lost his money on the transaction.)