Complex tip calculator

Objective:

Using the input of the user, calculate the total price of a dinner including tip, tax, and meal price.

Complexity level:

* Medium

Scenario:

* John doe is a customer at X restaurant.
* The customer wants to calculate the total price of the meal using the tax rate of the state, the price of the meal, and a flexible tip rate.
* The customer inputs the quantitative data into the calculator and the calculator calculates the total.
* This eliminates any unnecessary time spent trying to calculate the price.

Problem statement

1. Write an algorithm to take the user’s input for tax, tip, and meal price to calculate a total.
2. Write an algorithm to find out the total price in a different country using currency exchange rates.
3. Write an algorithm to calculate all things above, including the meal price for three items: soup, sandwich, dessert-assuming that John Doe is in a foreign country.

Expectation outcomes:

Practice gathering user input, using “if” statements, and creating a tool to be used regularly.

Reference URL:

1. Cheprasov, Artem (September 3, 2009). [On a New Method of Multiplication and Shortcuts](http://www.amazon.com/New-Method-Multiplication-Shortcuts/dp/1448689333/ref=sr_1_1?ie=UTF8&qid=1433146346&sr=8-1&keywords=artem+cheprasov). United States: CreateSpace Independent Publishing Platform. [ISBN](https://en.wikipedia.org/wiki/International_Standard_Book_Number) [9781448689330](https://en.wikipedia.org/wiki/Special:BookSources/9781448689330) .
2. Dorrell, Philip. ["How to Do Cube Roots of 9 Digit Numbers in Your Head"](http://thinkinghard.com/blog/CubeRoots.html). Thinking Hard. Retrieved 19 July 2015.
3. ["On the record with ... Artem Cheprasov"](http://www.nwherald.com/2010/12/27/on-the-record-with-artem-cheprasov/ae9stfj/). Northwest Herald. Retrieved 2015-06-01.