

Lab Assignment - Unit Converter

Due Oct 19, 2017 by 11:59pm

Points 20

Submitting a file upload

File Types zip

The Currency Converter

The goal of this assignment is to use functions. Try to contain as much of your code as possible inside of functions that are well named and can be reused. At a minimum your code must use two functions.

You are to create a program that can convert money from one system to another.

At the start of your program, ask the user how much money they have. Next ask them what currency they have and finally ask them what they want to convert it into. Convert the currency to the requested output and print a nice alert message with the value in the other currency.

Requirements

Use the following currencies and conversion rates:

- 1 USD = 0.91 Euro
- 1 USD = 124.17 JP Yen
- 1 USD = 0.65 British Pound
- 1 USD = 3.51 Brazilian Real

You can use math to figure out what all of these are equal to relative to one another.

Use the following as allowed input for the currency:

- 'USD'
- 'EUR'
- 'GBP'
- 'JPY'
- 'BRL'

Program expectations

- Your code must use a minimum of two functions.
- One function should calculate the conversion.
- One function should print the alert message with the converted currency and the currency name.
- **Hint** - It probably makes sense to use two conversion functions. One function to convert from any currency into USD and another to convert from USD into anything other currency.

Some general coding guidelines

- Add `'use strict'` at the top of every js file.
- Parameter names in functions should have a space after each one.
- Don't put a space between the name of the function and the opening parenthesis.
- Do put a space between the closing parenthesis and the opening curly brace.
- The opening curly brace should be on the same line as the function declaration.
- The closing curly brace should be on a line all by itself.
- Code within a function should be indented.
- Function naming conventions are the same as variable naming conventions (camelCase etc.)

Good Example:

```
function doStuff(some, stuff) {  
    console.log('some stuff');  
    return some + stuff;  
}  
  
doStuff(4, 7);
```

Bad example:

```
function do_stuff(some,stuff){  
    console.log('some stuff');  
    return some + stuff;}  
  
function morethings()  
{alert('all done.')}  
do_stuff(4, 7);
```

Unit Converter Rubric

Criteria	Ratings		Pts
	10.0 pts Full Marks	0.0 pts No Marks	
Uses two functions	10.0 pts Full Marks	0.0 pts No Marks	10.0 pts
Correct output	4.0 pts Full Marks	0.0 pts No Marks	4.0 pts
Program follows coding guidelines.	2.0 pts Full Marks	0.0 pts No Marks	2.0 pts
Files named according to conventions.	1.0 pts Full Marks	0.0 pts No Marks	1.0 pts
Variable and function naming is sensible.	1.0 pts Full Marks	0.0 pts No Marks	1.0 pts
Program output meets specifications.	2.0 pts Full Marks	0.0 pts No Marks	2.0 pts
EXTRA CREDIT - User defined function called from within a function.	2.0 pts Full Marks	0.0 pts No Marks	2.0 pts
Total Points: 22.0			

