Exercise on Default Arguments

It's time to play with function arguments. These exercises build further upon what we learned in the previous lesson.

Exercise 1:

Write a function that executes a callback function after a given delay in milliseconds. The default value of delay is one second.

The **setTimeout()** method can be used to specify the time delay before a function is executed.



Explanation:

The main objective of this exercise was to define a default argument for delay.

Using ES6 conventions, we can simply state the default value in the function arguments:

```
delay = 1000
```

The statement above sets the delay at 1000. You can define your own delay by passing it into the function. Otherwise, the executeCallback() function will execute after 1000 milliseconds.

If we want to use the ES5 syntax, we'd have to write something like this:

```
delay = delay || 1000;
```

We use the built in **setTimeout** method to start the timer and execute our function.

Exercise 2:

Change the below code such that the second argument of printComment has a default value that's initially 1, and is incremented by 1 after each call.

Select the show console button in the widget below to see your output.

```
function printComment( comment, line ) {
   console.log( line, comment );
}

//Edit above this line
for (var i = 1; i <= 5; i++)
   printComment('I should be lineNumber ' + i);</pre>
```

Explanation:

We create a new variable lineNumber which is initialized to 1. This way, we are updating a variable rather than changing the default argument of the printComment function each time.

Exercise 3:

Determine the values written to the console before executing this script.

```
function argList( productName, price = 100 ) {
   console.log( arguments.length ); //(A)
   console.log( productName === arguments[0] ); //(B)
   console.log( price === arguments[1] ); //(C)
};
argList( 'Krill Oil Capsules' );
```







Explanation:

The answers are fairly simple. Let's look at them one by one.

- (A): Even though we have specified that our function can have 2 arguments, we've already learned that it isn't necessary to provide both. In argList('Krill Oil Capsules'); we specify the first argument. Hence, the length of our arguments array is 1.
- **(B)**: Here, we are simply checking whether or not the productName argument exists. Since, we passed 'Krill Oil Capsules' into the function, the console will display true for this statement.
- (C): This is the interesting part. The price argument has a default value of
 100. However, it is not considered to be an argument which we have passed
 into the function. As a result, the comparative statement price ===
 arguments[1] will return false because arguments[1] is undefined.