# **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 <code>executeCallback()</code> 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);

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```

### **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' );
```







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## **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.