* Select five methods that can be used on an Array and describe the following for each: 1) what the method signature is, 2) what the method does, and 3) why would this method be useful (how could you use it)?
* Filter

1-method signature is : array.filter(function(currentvalue, index, arr), this value)

2-it contains the elements that pass the test, if no elements pass the test it returns an empty array

3- we use it when we want to create a new array filled with elements that pass a test provided by a function. Also it doesn’t execute the function for empty elements, this method also doesn’t change original array.

* Splice

1. Its syntax is array.splice(index, howmany, item1, ....., items)
2. It adds or removes array elements this method overwrites the original array.
3. An array containing the removed items if any

* Foreach

1. Syntax is : array.foreach(function(currentvalue, index, array ), this value)
2. This method call a function for each element in an array, the method is not executed for empty elements.

* Reduce

1. Array.reduce(function(total, currentvalue, currentindex, arr), initial value)
2. Reduce method uses 2 arguments a callback and an optional initial value, if an initial value is provided , reduce() calls the reducer call back function on each element in the array, in order. If no initial value is provided, reduce() calls the callback function on each element in the array after the first element.

* Map

1. Syntax: array.map(function (currentvalue, index, array), thisvalue)
2. Creates a new array from calling a function for every array element, calls a function once for each element in an array, Doesn’t execute a function for empty elements and doesn’t change the original array

* What is the difference between == and ===?

The difference is == the operator does the type conversion of the operands before comparison

And === compares the value as well as the datatype.

* What is a closure and how does it work? Provide an example.

Closure gives you access to an outer function scope from an inner function, closure are created every time a function is created.

* What is your favorite thing you learned this week?

I learnt how to pull from github I learnt a lot about arrays, functions, intermediate array methods, objects and equality.