COMP 3133 – Full Stack Development – Lab 1

- ES6 Practice Exercises

Developer Note:

- Try to solve the problems without using search engines or stack overflow for the solutions.

Exercise 1:

- Using ES6 syntax, write a function that will get the difference between a given number and 13, if the number is greater than 13 return double the absolute difference

```
console.log(difference(32))
console.log(difference(11))
```

Output:

```
38
2
```

Exercise 2:

- Rewrite the following code block using ES6 syntax, *ie. const, let, arrow function, template literals and for..of*

```
function gretter(myArray, counter) {

    var greetText = 'Hello ';

    for (var index = 0; index < myArray.length; index++) {
        console.log(greetText + myArray[index]);
    }

}
gretter(['Randy Savage', 'Ric Flair', 'Hulk Hogan'], 3);
```

Exercise 3:

- Using **array.proto.map** create function to use the capitalize method in Exercise 2 to upper case the first character of each Color in the following array..

```
const colors = ['red', 'green', 'blue']
// code...
console.log(capitalizedColors)

// Output
['Red', 'Green', 'Blue']
```

Array.proto.map Reference
https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Array/map

Exercise 4:

- Using **array.proto.filter** create a function that will filter out all the values of the array that are less than twenty.

```
var values = [1, 60, 34, 30, 20, 5]
// Code...
console.log(filterLessThan20)
// Output
// [1, 5]
```

Array.proto.filter Reference
https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Array/filter

Challenge:

- Using **array.proto.reduce** create calculate the sum and product of a given array.

```javascript
var array = [1, 2, 3, 4]
// Code ..
console.log(calculateSum);
console.log(calculateProduct);
// Output
10
24
```

Array.proto.reduce Reference

https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Array/Reduce