JS Advanced – Final Exam

Problem 3. Unit Testing

Your Task

Using **Mocha** and **Chai** write **JS Unit Tests** to test a variable named **testNumbers**, which represents an object. You may use the following code as a template:

```
describe("Tests …", function() {
    describe("TODO …", function() {
        it("TODO …", function() {
            // TODO: …
        });
     });
     // TODO: …
});
```

The object that should have the following functionality:

- **sumNumber(num1, num2)** - A function that accepts two parameters:
  - check if parameters are numbers
  - numbers can be positive and negative
  - if parameters aren't number, function return undefined
  - the function returns the sum of the given numbers, rounded to second number after decimal point
- **numberChecker(input)** - A function that accepts a single parameter:
  - the function parses the input to number, and validates it
  - if the input is a number, the function checks if it is even. If so the function returns the string: **"The number is even!"**
  - otherwise the function returns: **"The number is odd!"**
  - If the input is not a number the function throws an error – **"The input is not a number!"**
- **averageSumArray(arr)** - A function that accept single parameter (array):
  - the function iterates through each element in the array, calculates the sum, and returns the average sum
  - The array will be always valid, there is no need to test the input arrays.

JS Code

To ease you in the process, you are provided with an implementation which meets all of the specification requirements for the **testNumbers** object:

testNumbers.js

```
Const testNumbers = {
    sumNumbers: function (num1, num2) {
        let sum = 0;

        if (typeof(num1) !== 'number' || typeof(num2) !== 'number') {
            return undefined;
        } else {
```

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```
            sum = (num1 + num2).toFixed(2);
            return sum
        }
    },
    numberChecker: function (input) {
        input = Number(input);

        if (isNaN(input)) {
            throw new Error('The input is not a number!');
        }

        if (input % 2 === 0) {
            return 'The number is even!';
        } else {
            return 'The number is odd!';
        }

    },
    averageSumArray: function (arr) {

        let arraySum = 0;

        for (let I = 0; I < arr.length; i++) {
            arraySum += arr[i]
        }

        return arraySum / arr.length
    }
};
```

Submission

Submit your tests inside a **`describe()`** statement, as shown above.

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