ITP JS: Week 6

Practice Problems

1. Write a function named addAll() that takes an indefinite amount of arguments and returns the total sum. For example:

```
addAll(1, 2) = 3 addAll(10, 10, 30, 40) = 90
```

NOTE: Must use ES6 methods/features

2. Write a function named addMultiply() which takes an indefinite number of arguments. All the arguments except the first one are summed up and multiplied with the first argument. Example

```
addMultiply(2, 3, 5) = 16, Explanation: 3 + 5 = 8, 8 * 2 = 16
addMultiply(2, 2, 3, 3) = 16, Explanation: 2 + 3 + 3 = 8, 8 * 2 = 16
```

NOTE: Must use ES6 methods/features

3. Look at the following code and explain the output:

```
console.log(x);
console.log(a);
console.log(b);

var x = 0;
function a() {
    console.log(x);
}

var b = function() {
    console.log(x);
}
```

4. Given an array, show 3 methods to create an exact copy of the array

5. You're given a list of students as a JavaScript object as shown below:

Based on this, you want to create a new Object array named filteredStudents which would contain only the name and age property. The filtering would be done based on these conditions:

- All received grades are greater than or equal to 50
- The student was absent in at least one class (1 means present and 0 means absent)

NOTE: You are **strictly** required to use ES6 methods only and nothing else, not even traditional loops

Prepared By
Ahmed Sadman Muhib
Full-Stack Instructor