Fundamental Learning Assignment - Part 2

# **Assignment 0: Treehouse courses**

- 1. JavaScript Basics
- 2. JavaScript Functions
- 3. JavaScript Loops
- 4. JavaScript Arrays
- 5. JavaScript Objects
- 6. Object-Oriented JavaScript
- 7. Callback Functions
- 8. Array Iteration Methods

Total length: 14 hours

Fundamental Learning Assignment - Part 2

# **Assignment 1: Function and Array**

Complete the function below to find the max number of the passing array of numbers.

**Reminder:** you *can't* use built-in Math.max() or sort() to complete this assignment.

```
function max(numbers) {
    // your code here
}
console.log(max([1, 2, 4, 5])); // expected output: 5
console.log(max([5, 2, 7, 1, 6])); // expected output: 7
```

Fundamental Learning Assignment - Part 2

# **Assignment 2: Object**

Complete the function below to calculate the result of the passing object.

```
function calculate(args) {
      // your code here
}
console.log(calculate({ n1: 2, n2: 3, op: '+' })); // expected output: 5
console.log(calculate({ n1: 5, n2: 2, op: '-' })); // expected output: 3
console.log(calculate({ n1: 1, n2: 6, op: 'x' })); // expected output: 'Not supported'
```

Fundamental Learning Assignment - Part 2

# **Assignment 3: Function, Array, and Object**

Complete the function below to calculate the total price of all products after applying a discount.

```
function calculate(data) {
       // your code here
}
const discountedPrice = calculate({
       discount: 0.1,
       products: [
               {
                      name: "Product 1",
                      price: 100
               },
               {
                      name: "Product 2",
                      price: 700
               },
               {
                      name: "Product 3",
                       price: 250
               }
       ]
});
console.log(discountedPrice) // show the total price of all products after applying a discount
```

Fundamental Learning Assignment - Part 2

# **Assignment 4: Algorithm Practice**

Given an array of integers, return indices of the two numbers such that they add up to a specific target. You may assume that each input would have exactly one solution, and you may not use the same element twice.

Fundamental Learning Assignment - Part 2

#### **Assignment 5: Callback Function**

Complete the function below to show a delayed result in the console.

Hint: You should use window.setTimeout() for time scheduling.