Batch #15 / Front-End Class

Remote Learning Assignment - Week 2

Assignment 1: Function and Array

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

Reminder: you cannot use built-in Math.max() or sort() to complete this assignment.

```
function max(numbers){
        // your code here, for-loop method preferred
}
max([1, 2, 4, 5]); // result to 5
max([5, 2, 7, 1, 6]); // result to 7
```

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Assignment 2: Object

In JavaScript, there are many different sets of syntax for creating objects. In the code below, function parameters are encapsulated into an object, try using at least two ways to create a proper object as a parameter of the calculate function.

```
function calculate(args){
	let result;
	if(args.op==="+"){
		result=args.n1+args.n2;
	}else if(args.op==="-"){
		result=args.n1-args.n2;
	}else{
		result="Not supported";
	}
	return result;
}
// Try to call calculate function correctly
/*
	For example, if we have an add function like this:
		function add(args){
			return args.n1+args.n2;
		}
	We can call it by passing an object created by JSON literal:
		add({n1:3, n2:4}); // your first way
	You should apply constructor or class as another way to create a proper object.
		add(用類別或建構式產生的物件); // your another way
*/
```

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Assignment 3: Function, Array, and Object

Complete the function below to calculate the average price of all the products.

```
function avg(data){
	// your code here
}
avg({
	size:3,
	products:[
		{
			name:"Product 1",
			price:100
		},
		{
			name:"Product 2",
			price:700
		},
		{
			name:"Product 3",
			price:250
		}
	]
}); // show the average price of all products
```

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Assignment 4: HTML DOM and Event Handling

Following assignment in week 1, let's add some effects on it by only pure JavaScript without Bootstrap, JQuery or any other libraries.

Request 1: Click to Change Text.

When the user clicks on the "Welcome Message" block, change text to "Have a Good Time!".

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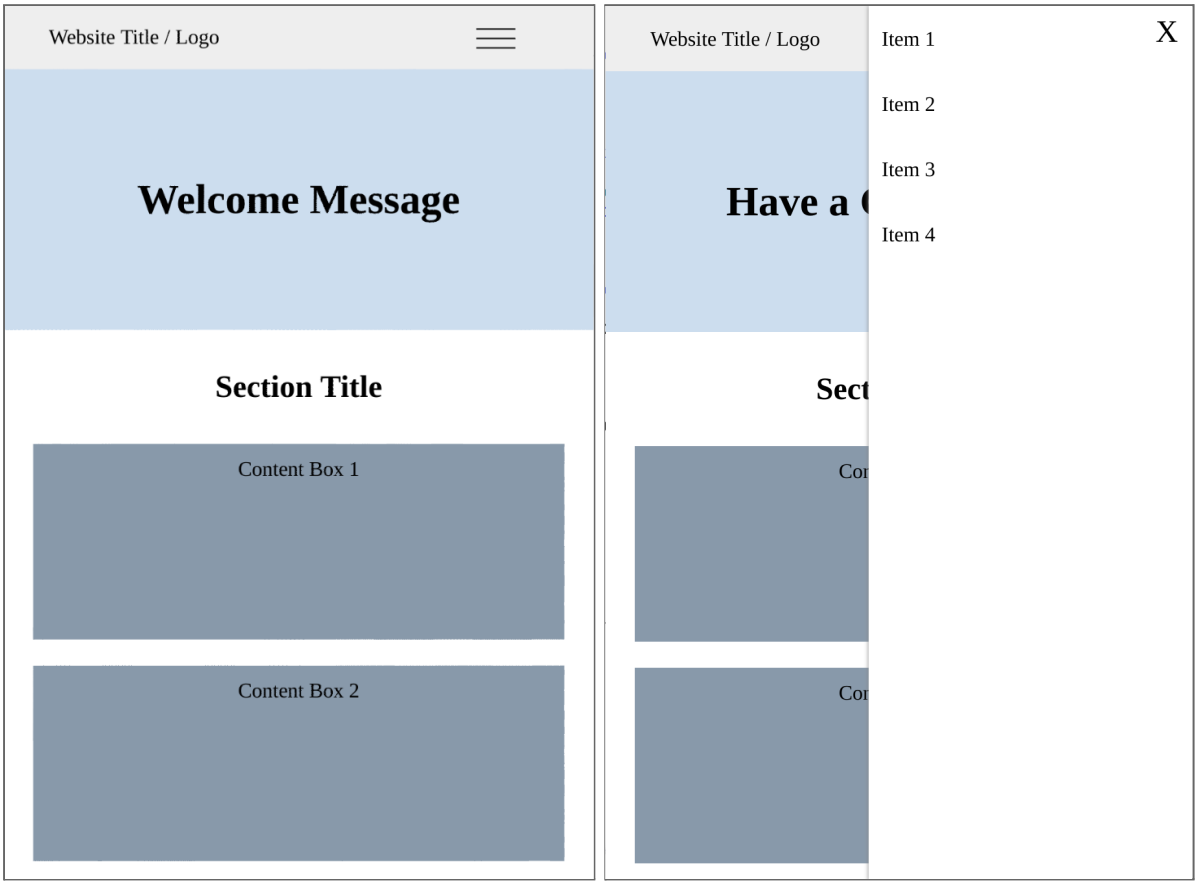
Request 2: Click to Show/Close Menu.

When the user clicks the menu at the top-right corner, show the hidden mobile menu. After that, the user can click the close button to hide it.

Hint: you may apply css position:fixed to create a floating mobile menu, which may be out of screen at beginning and totally separated from original menu.



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Request 3: Click to Show More Content Boxes.

There are some more content boxes waiting to show. When the user clicks the Call-to-Action button, show those hidden content boxes.

Hint: all content boxes are already there, they are just set to display:none at the beginning.

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Assignment 5: Algorithm Practice (Advanced Optional)

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.

```
function twoSum(nums, target){
	// your code here
}
/*
	For example:
		twoSum([2, 7, 11, 15], 9);
	Should returns:
		[0, 1]
	Because:
		nums[0]+nums[1] is 9
*/
```