

Batch #17 / 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 *can't* use built-in Math.max() or sort() to complete this assignment.

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

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Assignment 2: Object

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

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

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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  
}  
calculate({  
    discount: 0.1,  
    products: [  
        {  
            name: "Product 1",  
            price: 100  
        },  
        {  
            name: "Product 2",  
            price: 700  
        },  
        {  
            name: "Product 3",  
            price: 250  
        }  
    ]  
}); // show the total price of all products after applying a discount
```

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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!".

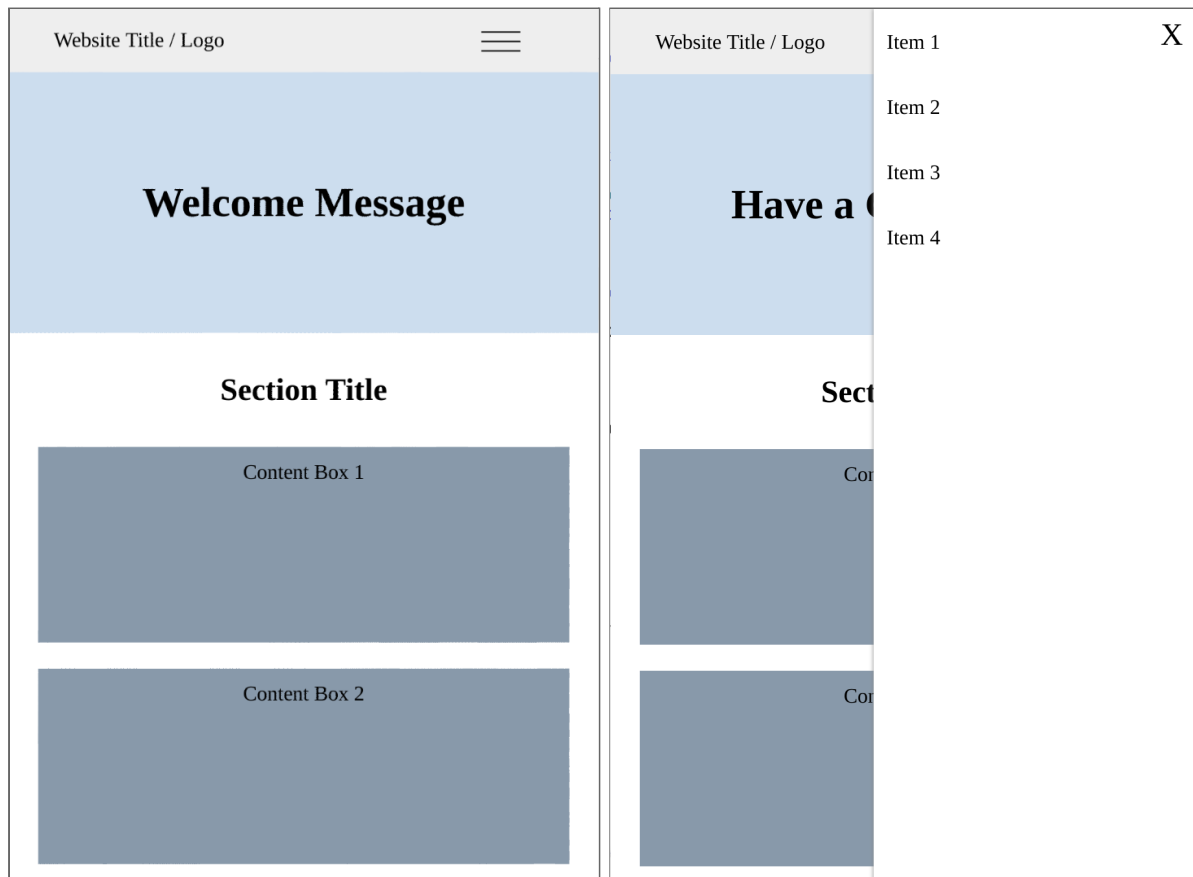


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Request 2: Click to Show/Close Menu.

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 the beginning and totally separated from the 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  
*/
```