

Spring 2019 / Web Class
Remote Learning Assignment - Week 2

Assignment 1: Function and Array

Complete the function below to find the max number of passing numbers. You may refer to this [MDN document](#) about rest parameters of the function.

Reminder: you cannot use Math.max() 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
```

Spring 2019 / Web Class
Remote Learning Assignment - Week 2

Assignment 2: Object

In JavaScript, there are many different sets of syntax for creating objects. In the codes 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});
```

And, you should find another way to create a proper object.

```
// your way
```

*/

Spring 2019 / Web Class
Remote Learning Assignment - Week 2

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
```

Spring 2019 / Web Class
Remote Learning Assignment - Week 2

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

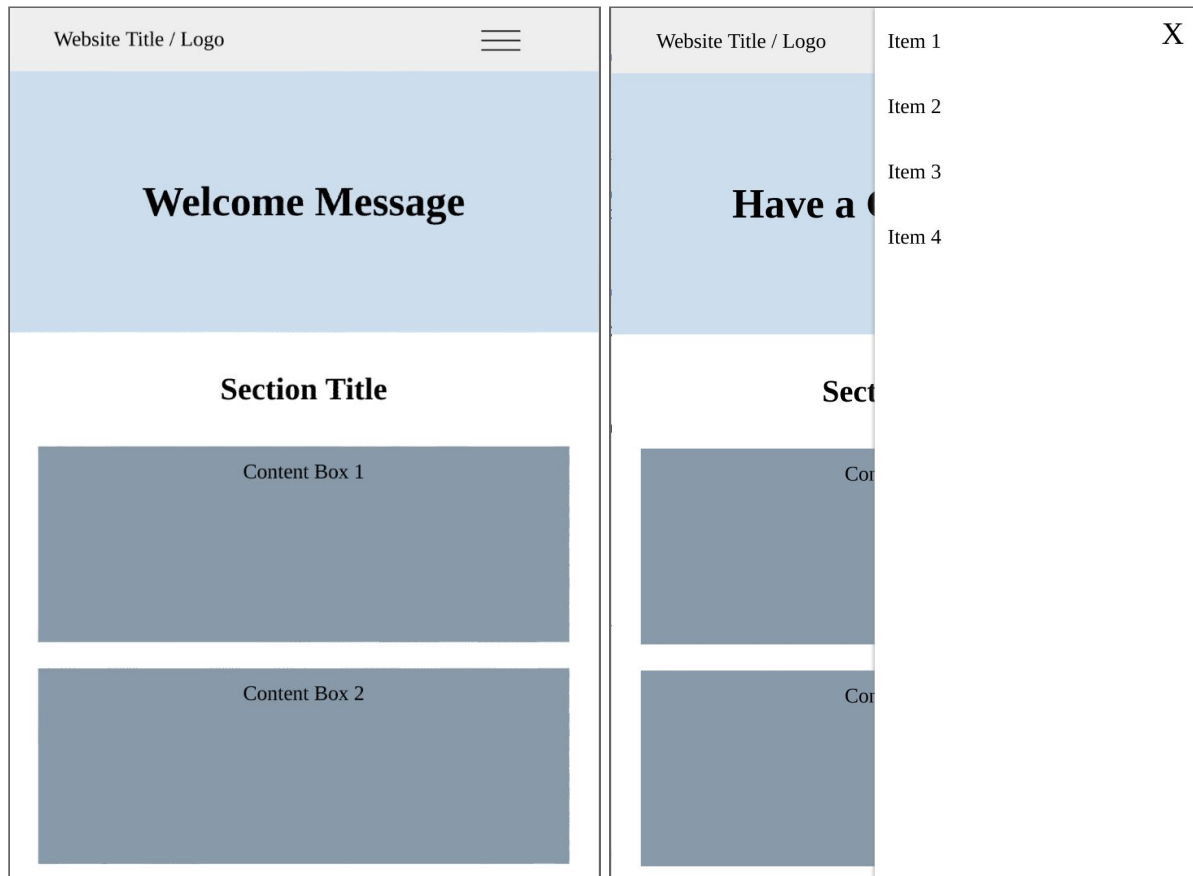


Spring 2019 / Web Class
Remote Learning Assignment - Week 2

Request 2: Click to Show/Close Menu.

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

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



Spring 2019 / Web Class
Remote Learning Assignment - Week 2

Request 3: Click to Show More Content Boxes.

There are some more content boxes waiting to show. When user click 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.



Spring 2019 / Web Class
Remote Learning Assignment - Week 2

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  
*/
```