Task 2: Debug Old Labs

In lab 10, we found that <div> for output will output the information infinitely as long as we click the buttons. We click the button and output <div> to output two lines of information. When the user uses the input box and button a lot of times, it will not look beautiful. What I want to change is that the output <div> only changes the information instead of inputting a new one.

I created two with id "out1" and "out2" in the output section in the html code, and the new JS code changed the innerHTML of two instead of creating two new .

```
<!DOCTYPE html>
    <html lang="en" dir="ltr">
       <meta charset="utf-8">
       <title>Lab 10</title>
       <link rel="stylesheet" href="css/index.css">
       <script src="js/lab10.js" defer></script>
       <h1 id="head">Lab 10: JavaScript Events and Forms</h1>
        <h2 id = "chall">Challenge</h2>
         Ve need to implement JS events for some specific tasks.
        <h2>Problems</h2>
         We used some tiem to figure out addEventListener() of button,
        because it did not work at first.
         <h2 id="res">Results</h2>
        We created lab10.js File and here is the program execution
        <a href="js/lab10.js">Link to Our JS File</a>
<
        <h2>Input Section</h2>
        <label for="">Input your name:</label>
        <input type="text" id="user-name" value="Input You Name">
        <button id="my-button">Submit Input</button>
       <div id="output">
        <h2>Output Section</h2>
        </body>
```

```
function superUserNameSorter(userName) {
     var nameArray = userName.split('');
     var sortedNameArray = nameArray.sort(function(a, b){
       return a.toUpperCase().localeCompare(b.toUpperCase());})
     var newUserName = sortedNameArray.join("").split(" ").join("");
     return newUserName;
    function shuffleUserName(userName) {
     var nameArray = userName.split('');
<
      var shuffledArray = nameArray.sort(function() {return .5 - Math.random();});
      var newUserName = shuffledArray.join("").split(" ").join("").toLowerCase();
      var n = Math.round(newUserName.length * Math.random());
      var p1 = newUserName.substr(0,n);
      var p2 = newUserName.substring(n);
     var p1a = p1.split('');
      p1a[0] = p1a[0].toUpperCase();
      var p2a = p2.split('');
     p2a[0] = p2a[0].toUpperCase();
      return p1a.join("") + " " + p2a.join("");
    var button = document.getElementById('my-button');
    button.addEventListener('click', function() {
        var inputValue = document.getElementById('user-name').value;
        var para1 = document.getElementById("out1");
        para1.innerHTML = "Sort: " + superUserNameSorter(inputValue);
        var para2 = document.getElementById("out2");
        para2.innerHTML = "Anagram: " + shuffleUserName(inputValue);
```

Lab 10: JavaScript Events and Forms

Challenge

We need to implement JS events for some specific tasks.

Problems

We used some tiem to figure out addEventListener() of button, because it did not work at first.

Results

We created lab10.js File and here is the program execution

Link to Our JS File

Input Section

Input your name: Yuwei Mao Submit Input

Output Section

Sort: aeiMouwY

Anagram: Mwe Uayoi

First Time input

Challenge

We need to implement JS events for some specific tasks.

Problems

We used some tiem to figure out addEventListener() of button, because it did not work at first.

Results

We created lab10.js File and here is the program execution

Link to Our JS File

Input Section

Input your name: Mengya Qiu

Submit Input

Output Section

Sort: aegiMnQuy

Anagram: Nme Uagyqi

Second Time input with a different name. And the output <div> did not input a new one, and it changes the original information instead. So it is successful!

We also find a small problem in lab13 which only outputs the maximum number -1 instead of the maximum number. For example, if we input 100, the program only outputs up to 99. So We'd like to change something in the for-loop in order to let the program output up to the maximum number exactly.

```
function FizzBuzz(max,numList,wordList){
 var printStrAll = "";
 for (var i=0; i<max*1+1; i++){
   var printStr = "";
   var w = false;
   for (var j=0; j<numList.length; j++){</pre>
     if (i % numList[j] ==0){
       printStr += wordList[j];
   if (w == true){ printStrAll = printStrAll + i + " - " + printStr + "!<br>";}
    else { printStrAll = printStrAll + i + "<br>";}
  return printStrAll;
$("#b1").click(function (){
 var numList = [0,0,0,0,0];
 var wordList = ["","","","",""];
 numList[0] = $("#n1").val();
 numList[1] = $("#n2").val();
  numList[2] = $("#n3").val();
  numList[3] = $("#n4").val();
  numList[4] = $("#n5").val();
 wordList[0] = $("#w1").val();
 wordList[1] = $("#w2").val();
 wordList[2] = $("#w3").val();
  wordList[3] = $("#w4").val();
  wordList[4] = $("#w5").val();
 maxN = $("#maxx").val();
  $("#output").html(FizzBuzz(maxN,numList,wordList));
})
```

Challenge

We need to implement JavaScript loops in order to input number 1-200 with variations.

Problems

We met some problems while we write our for loops. The for loop inside cannot always find the right factor numbers, but these are solved after we modified several times

Results

We created lab13.js File and here is the program execution

Link to Our JS File

Input Section

Max Number (0-999): [20]
Special Factor Numbers and Words

Number (1-31) Word

	,	1.02
5)	Buzz
7)	Boom
)	
)	

Output Section

0 - FizzBuzzBoom!	6 - Fizz!	12 - Fizz!	18 - Fizz!
1	7 - Boom!	13	19
2	8	14 - Boom!	20 - Buzz!
3 - Fizz!	9 - Fizz!	15 - FizzBuzz!	
4	10 - Buzz!	16	
5 - Buzz!	11	17	

With an input of 20 as the maximum value, it iterated from 0 to 20 instead of 0 to 19 as before. It works !!				