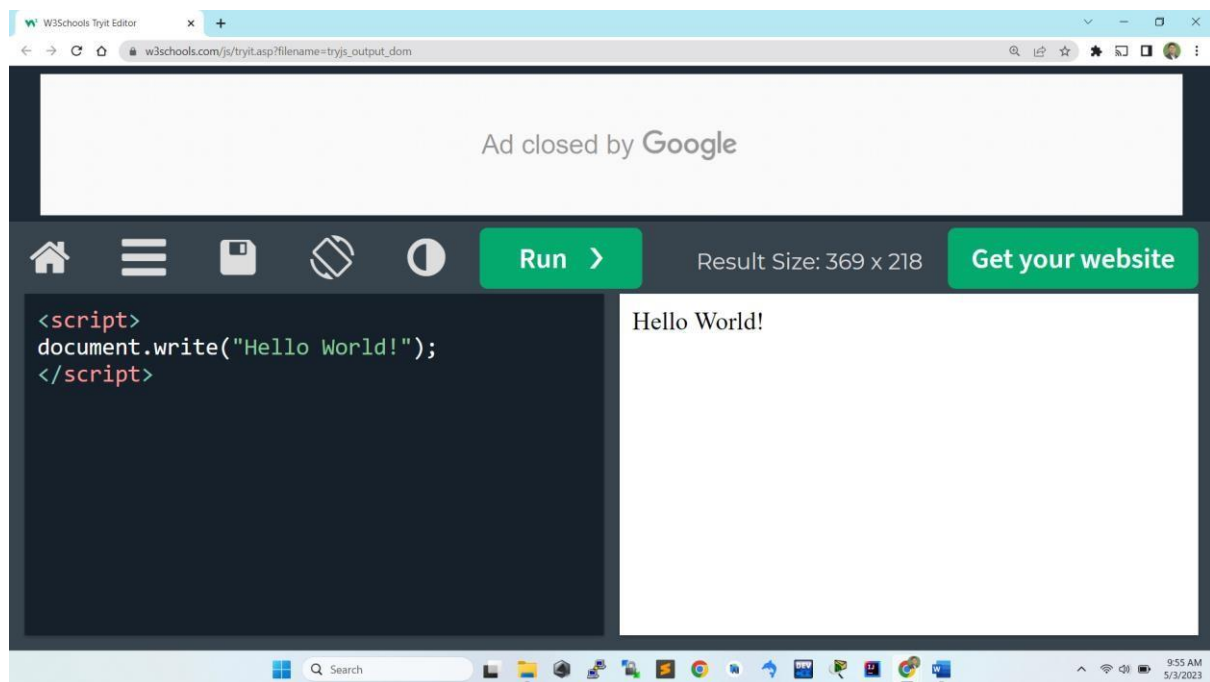


Coding Exercises in Javascript

Instruction: Read and follow the instructions per exercises. Take a SCREENSHOT of the actual code and the output of your answer. You may download and use any TEXT EDITOR (*sublime text, VSCode, notepad++, etc.*) available on the internet. (RECOMMENDED)
Save your document in PDF Format.

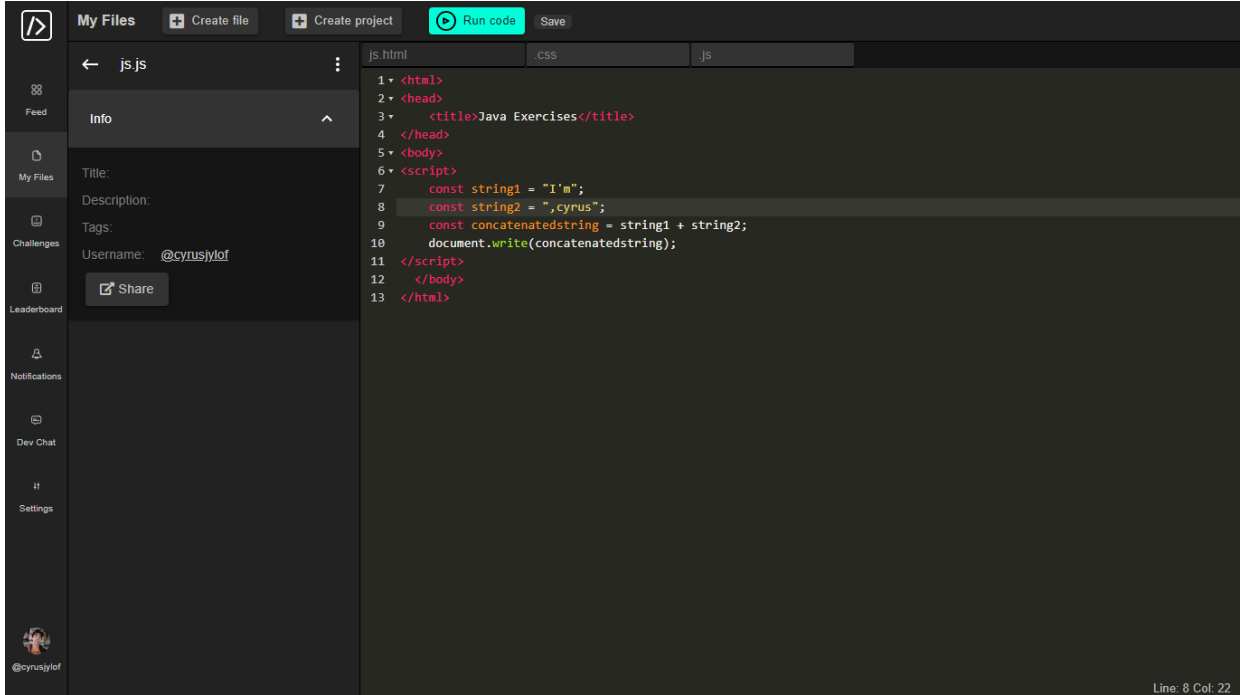
Date of Submission: May 26, 2023

Example:



Exer #1: Show way(s) to concatenate the following two strings together to get the string "I'm, <insert your name>."

Code:



```
1 <html>
2 <head>
3 <title>Java Exercises</title>
4 </head>
5 <body>
6 <script>
7   const string1 = "I'm";
8   const string2 = "cyrus";
9   const concatenatedstring = string1 + string2;
10  document.write(concatenatedstring);
11 </script>
12 </body>
13 </html>
```

Output:



I'm,cyrus

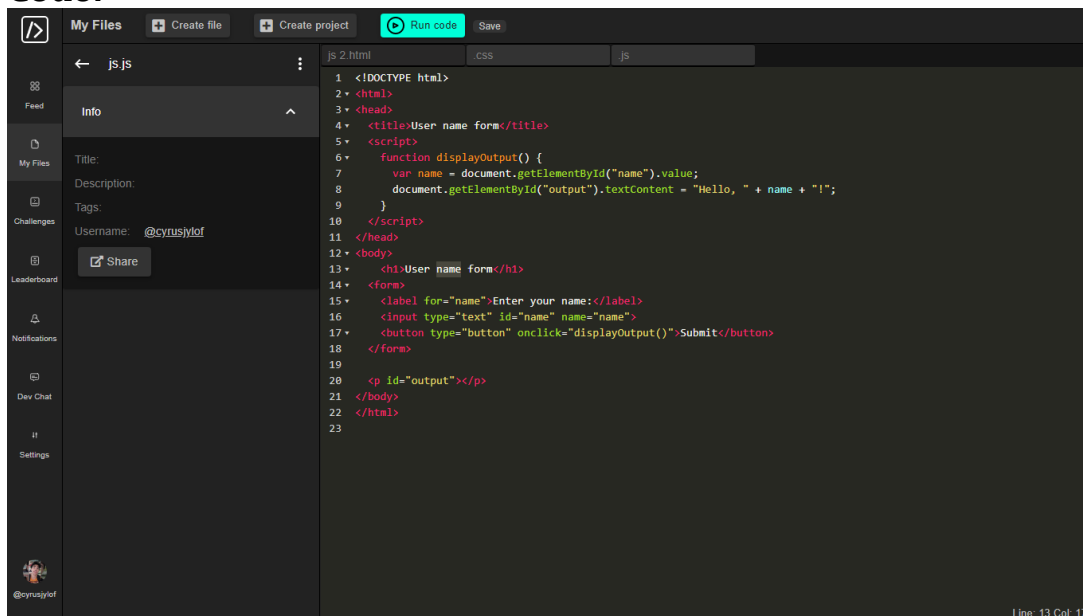
Exer #2 create a simple HTML form and accept the user's name and display the name through any JS output statement.

Sample output of the HTML form :

Please input your name:

Hello

Code:



```
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <title>User name form</title>
5 <script>
6 function displayOutput() {
7   var name = document.getElementById("name").value;
8   document.getElementById("output").textContent = "Hello, " + name + "!";
9 }
10 </script>
11 </head>
12 <body>
13 <h1>User name form</h1>
14 <form>
15 <label for="name">Enter your name:</label>
16 <input type="text" id="name" name="name">
17 <button type="button" onclick="displayOutput()">Submit</button>
18 </form>
19
20 <p id="output"></p>
21 </body>
22 </html>
23
```

Output:

Output

User name form

Enter your name:

Hello, cyrus!

Exer #3: Create a JS program to input week number (1-7) and print the corresponding day of week name.

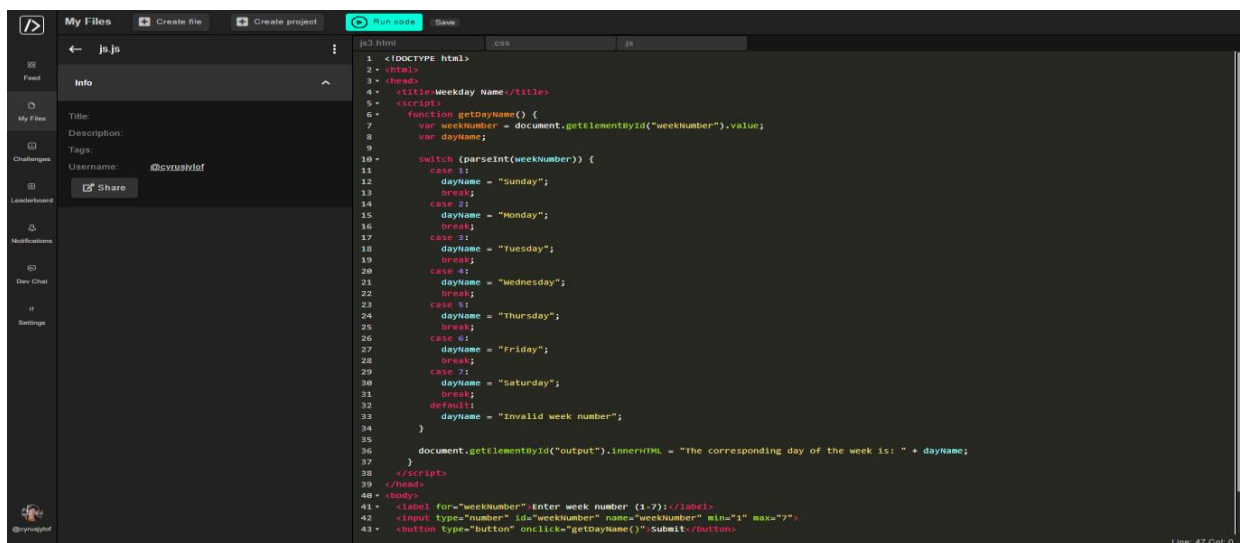
Example:

Input week number: 1

Output:

Monday

Code:



```
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <title>weekday Name</title>
5 <script>
6 function getDayName() {
7     var weekNumber = document.getElementById("weekNumber").value;
8     var dayName;
9
10    switch (parseInt(weekNumber)) {
11        case 1:
12            dayName = "Sunday";
13            break;
14        case 2:
15            dayName = "Monday";
16            break;
17        case 3:
18            dayName = "Tuesday";
19            break;
20        case 4:
21            dayName = "Wednesday";
22            break;
23        case 5:
24            dayName = "Thursday";
25            break;
26        case 6:
27            dayName = "Friday";
28            break;
29        case 7:
30            dayName = "Saturday";
31            break;
32        default:
33            dayName = "Invalid week number";
34    }
35    document.getElementById("output").innerHTML = "The corresponding day of the week is: " + dayName;
36 }
37
38 </script>
39 </head>
40 <body>
41 <label for="weekNumber">Enter week number (1-7):</label>
42 <input type="number" id="weekNumber" name="weekNumber" min="1" max="7">
43 <button type="button" onclick="getDayName()">Submit</button>
44
```

Output:

X

Output

Enter week number (1-7):

The corresponding day of the week is: Friday

Exer #4: Create a JS program that will tell the user if the character they input is Vowel or Consonant.

The five alphabets A, E, I, O and U are called vowels. All other alphabets except these 5 vowel letters are called consonants.

Assuming that the user will always enter an alphabet character.

Example:

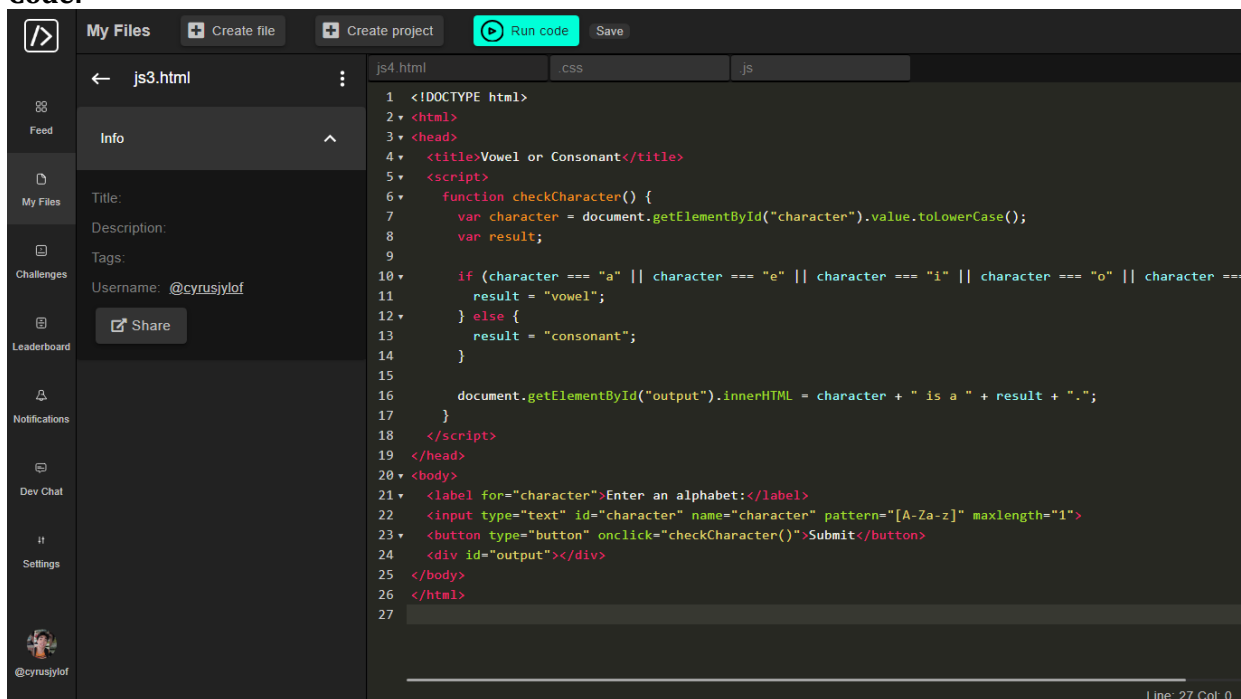
Enter an alphabet: G

G is a consonant.

Enter an alphabet: g

g is a consonant.

Code:



```
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <title>Vowel or Consonant</title>
5 <script>
6 function checkCharacter() {
7   var character = document.getElementById("character").value.toLowerCase();
8   var result;
9
10  if (character === "a" || character === "e" || character === "i" || character === "o" || character === "u") {
11    result = "vowel";
12  } else {
13    result = "consonant";
14  }
15
16  document.getElementById("output").innerHTML = character + " is a " + result + ".";
17 }
18 </script>
19 </head>
20 <body>
21 <label for="character">Enter an alphabet:</label>
22 <input type="text" id="character" name="character" pattern="[A-Za-z]" maxlength="1">
23 <button type="button" onclick="checkCharacter()">Submit</button>
24 <div id="output"></div>
25 </body>
26 </html>
27
```



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Output:

✕ Output

Enter an alphabet:
b is a consonant.

Exer #5: Create a JS program to read the age of a candidate and determine whether the user is eligible for casting his/her own vote.

Eligibility: 18 Years old and above

Code:

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <title>Vote Eligibility</title>
5 <script>
6 function checkEligibility() {
7   var age = document.getElementById("age").value;
8   var result;
9
10  if (age >= 18) {
11    result = "eligible";
12  } else {
13    result = "not eligible";
14  }
15
16  document.getElementById("output").innerHTML = "You are " + result + " to cast your own vote.";
17 }
18 </script>
19 </head>
20 <body>
21 <label for="age">Enter your age:</label>
22 <input type="number" id="age" name="age" min="0">
23 <button type="button" onclick="checkEligibility()">Submit</button>
24 <div id="output"></div>
25 </body>
26 </html>
27
```



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Output:

✕ Output

Enter your age:
You are not eligible to cast your own vote.

Exer #6: Create a JS program that identifies the proper remarks based on students' grade as an input.

Grading Scale

*Format

Scale: **Remarks**

96 – 100: **Excellent**

90 – 95: **Very Satisfactory**

84 – 89: **Satisfactory**

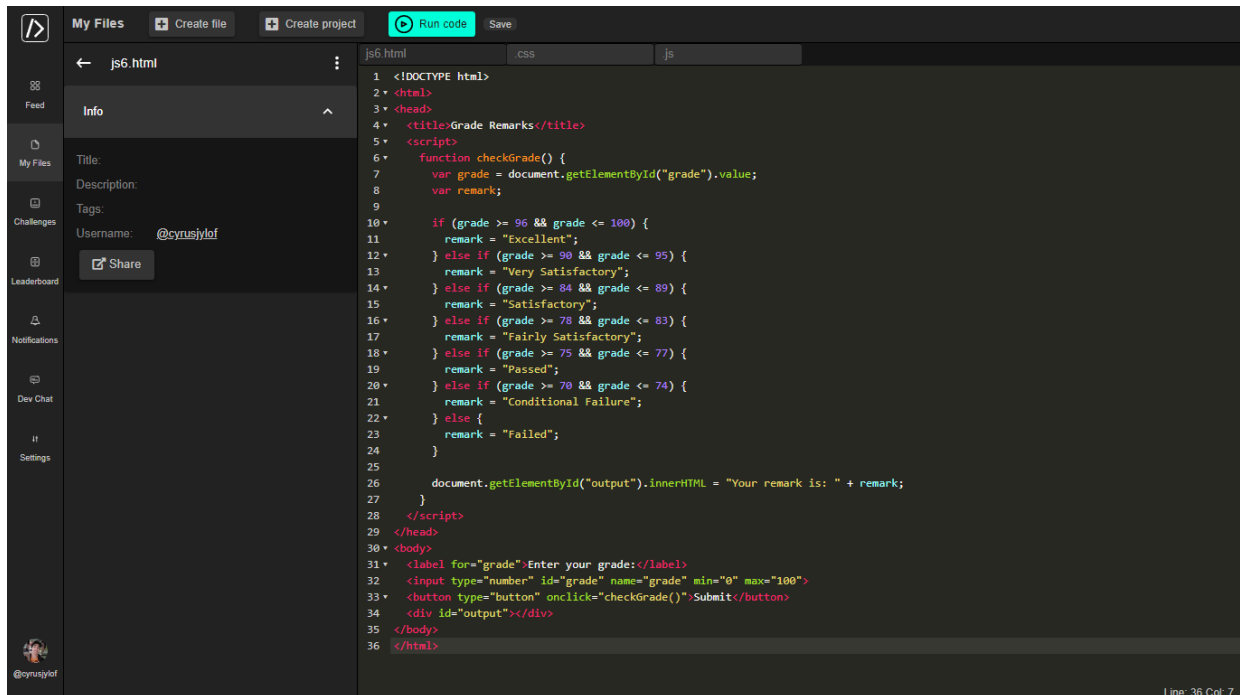
78 – 83: **Fairly Satisfactory**

75 – 77: **Passed**

70 – 74: **Conditional Failure**

69 and Below: **Failed**

Code:



```
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <title>Grade Remarks</title>
5 <script>
6 function checkGrade() {
7   var grade = document.getElementById("grade").value;
8   var remark;
9
10  if (grade >= 96 && grade <= 100) {
11    remark = "Excellent";
12  } else if (grade >= 90 && grade <= 95) {
13    remark = "Very Satisfactory";
14  } else if (grade >= 84 && grade <= 89) {
15    remark = "Satisfactory";
16  } else if (grade >= 78 && grade <= 83) {
17    remark = "Fairly Satisfactory";
18  } else if (grade >= 75 && grade <= 77) {
19    remark = "Passed";
20  } else if (grade >= 70 && grade <= 74) {
21    remark = "Conditional Failure";
22  } else {
23    remark = "Failed";
24  }
25
26  document.getElementById("output").innerHTML = "Your remark is: " + remark;
27  }
28 </script>
29 </head>
30 <body>
31 <label for="grade">Enter your grade:</label>
32 <input type="number" id="grade" name="grade" min="0" max="100">
33 <button type="button" onclick="checkGrade()">Submit</button>
34 <div id="output"></div>
35 </body>
36 </html>
```

Output:



✕ Output

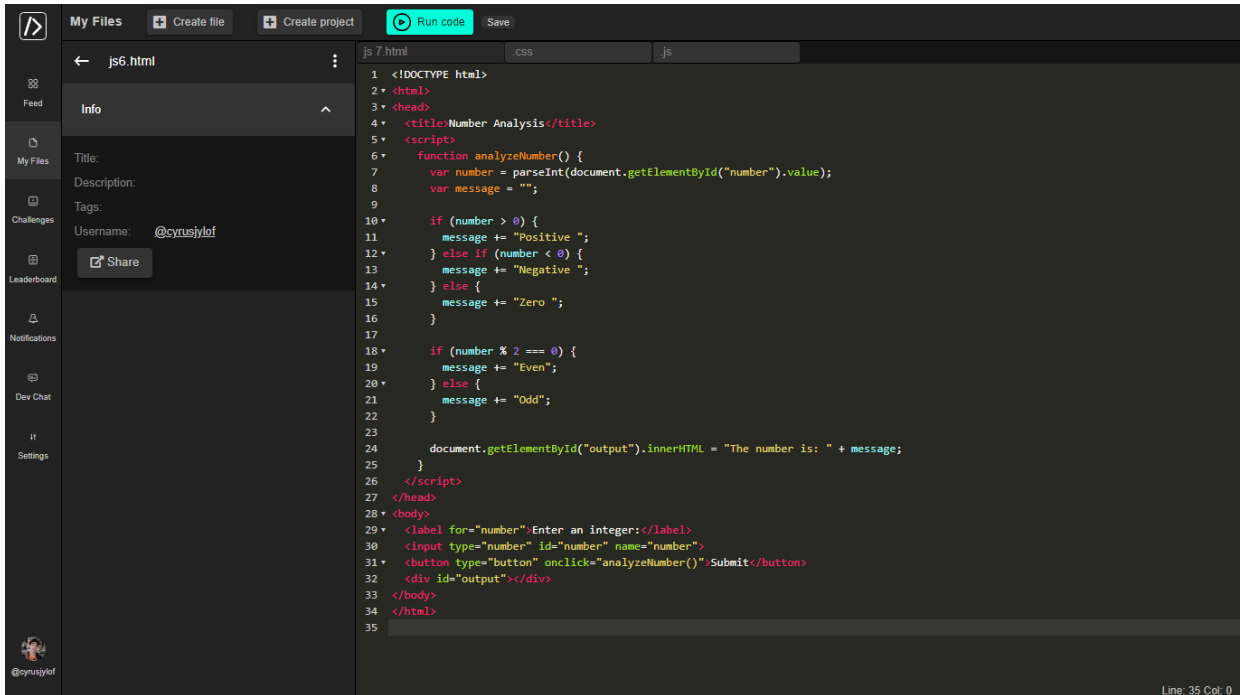
Enter your grade:

Your remark is: Very Satisfactory

Exer #7: Create a JS Program that accepts input from the user. Display a message telling whether the integer is:

- Positive or Negative
- Odd or Even

Code:



```
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <title>Number Analysis</title>
5 <script>
6 function analyzeNumber() {
7   var number = parseInt(document.getElementById("number").value);
8   var message = "";
9
10  if (number > 0) {
11    message += "Positive ";
12  } else if (number < 0) {
13    message += "Negative ";
14  } else {
15    message += "Zero ";
16  }
17
18  if (number % 2 === 0) {
19    message += "Even";
20  } else {
21    message += "Odd";
22  }
23
24  document.getElementById("output").innerHTML = "The number is: " + message;
25 }
26 </script>
27 </head>
28 <body>
29 <label for="number">Enter an integer:</label>
30 <input type="number" id="number" name="number">
31 <button type="button" onclick="analyzeNumber()">Submit</button>
32 <div id="output"></div>
33 </body>
34 </html>
35
```

Output:



Output

Enter an integer:

The number is: Negative Even



Exer #8: Create a JS Program that will display an integer from 0 to 15 using the following looping statements:

- while loop
- do-while loop
- for loop

code:

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <title>Number Display</title>
5 <script>
6 function displayNumbers() {
7   var output = document.getElementById("output");
8
9   // while loop
10  var i = 0;
11  output.innerHTML += "While Loop:<br>";
12  while (i <= 15) {
13    output.innerHTML += i + "<br>";
14    i++;
15  }
16
17  // do-while loop
18  i = 0;
19  output.innerHTML += "<br>Do-While Loop:<br>";
20  do {
21    output.innerHTML += i + "<br>";
22    i++;
23  } while (i <= 15);
24
25  // for loop
26  output.innerHTML += "<br>For Loop:<br>";
27  for (i = 0; i <= 15; i++) {
28    output.innerHTML += i + "<br>";
29  }
30 }
31 </script>
32 </head>
33 <body>
34 <button type="button" onclick="displayNumbers()">Display Numbers</button>
35 <div id="output"></div>
36 </body>
37 </html>
```

Result:

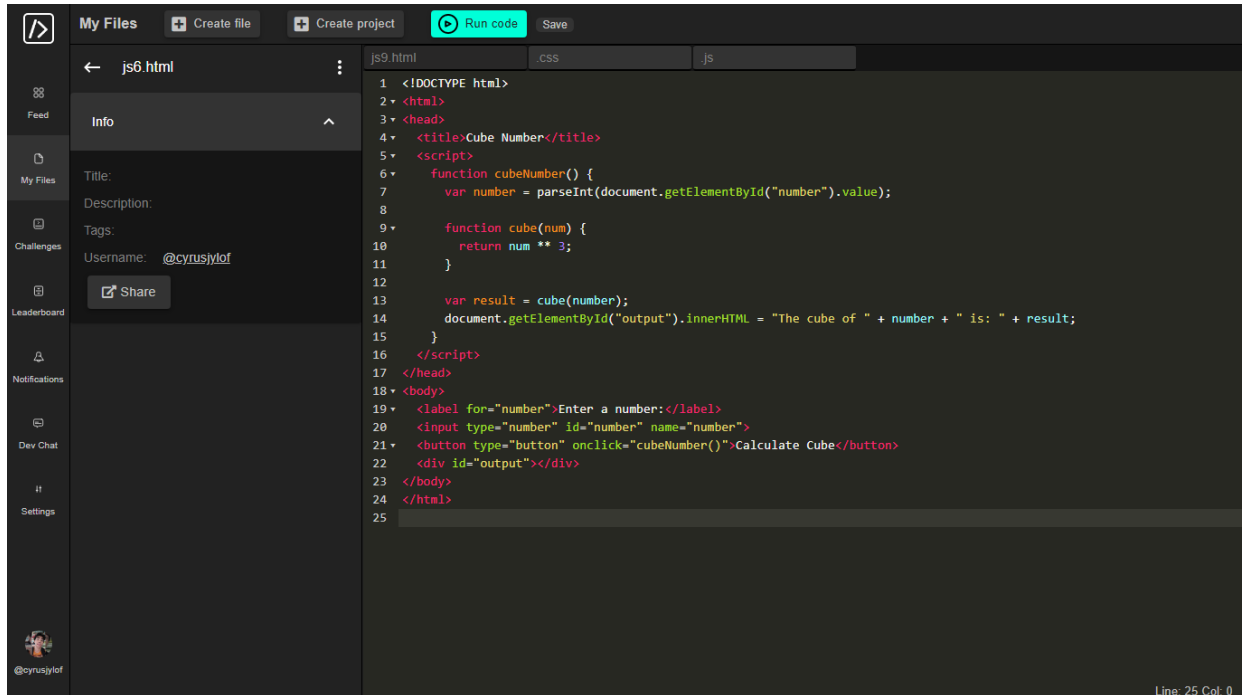
```
Display Numbers
While Loop:
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

Do-While Loop:
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

For Loop:
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
```

Exer #9: Create a JS program that displays the result of cubing a number coming from the user. Pass a number to a function that cubes a number and returns the result. The display should execute within the function that calls the cube method.

Code:



```
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <title>Cube Number</title>
5 <script>
6   function cubeNumber() {
7     var number = parseInt(document.getElementById("number").value);
8
9     function cube(num) {
10      return num ** 3;
11    }
12
13    var result = cube(number);
14    document.getElementById("output").innerHTML = "The cube of " + number + " is: " + result;
15  }
16 </script>
17 </head>
18 <body>
19 <label for="number">Enter a number:</label>
20 <input type="number" id="number" name="number">
21 <button type="button" onclick="cubeNumber()">Calculate Cube</button>
22 <div id="output"></div>
23 </body>
24 </html>
25
```

Output:



Enter a number:

The cube of 8 is: 512



Exer #10: Create a JS program that calculates two (2) numbers input by the user. Perform the following math operations using the given inputs:

- Addition
- Subtraction
- Multiplication
- Division
- Modulus / Modulo

Sample output:

Calculate multiplication and divi... x

File | C:/Users/AI/Documents/javascript/calculate_mult_and_div.html

Calculate Two Numbers

Enter First Number :

Enter Second Number:

The Result is :

Search

10:32 AM
5/3/2023



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Code:

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4   <title>Java Exercise</title>
5 </head>
6 <style>
7   body{
8     background-color: lightblue;
9   }
10 </style>
11 <body>
12   <form>
13     <h1>Calculate of two numbers</h1>
14     <div>
15       <div>
16         <label for="numone">Enter first number: </label>
17         <input type="text" placeholder="Enter a number" name="cube" id="num1" required><br>
18       </div>
19       <div>
20         <label for="numbe2">Enter second number: </label>
21         <input type="text" placeholder="Enter a number" name="cube" id="num2" required>
22       </div>
23       <br>
24       <input type="button" name="" value="Addition" onclick="addNum()" id="submit">
25       <input type="button" name="" value="Subtraction" onclick="subtractNum()" id="submit">
26       <input type="button" name="" value="Multiplication" onclick="multiplyNum()" id="submit">
27       <input type="button" name="" value="Division" onclick="divideNum()" id="submit">
28       <input type="button" name="" value="Modulos" onclick="moduloNum()" id="submit">
29     </div>
30   </form>
31   <h1><span id="result"></span></h1>
32 <script>
33   function addNum() {
34     firstnum = document.getElementById("num1").value;
35     secondnum = document.getElementById("num2").value;
36     document.getElementById("result").innerHTML = parseInt(firstnum) + parseInt(secondnum);
37   }
38 </script>
```

```
23   <input type="button" name="" value="Division" onclick="divideNum()" id="submit">
24   <input type="button" name="" value="Modulos" onclick="moduloNum()" id="submit">
25 </div>
26 </div>
27 </form>
28 <h1><span id="result"></span></h1>
29 <script>
30   function addNum() {
31     firstnum = document.getElementById("num1").value;
32     secondnum = document.getElementById("num2").value;
33     document.getElementById("result").innerHTML = parseInt(firstnum) + parseInt(secondnum);
34   }
35   function subtractNum() {
36     firstnum = document.getElementById("num1").value;
37     secondnum = document.getElementById("num2").value;
38     document.getElementById("result").innerHTML = firstnum - secondnum;
39   }
40   function multiplyNum() {
41     firstnum = document.getElementById("num1").value;
42     secondnum = document.getElementById("num2").value;
43     document.getElementById("result").innerHTML = firstnum * secondnum;
44   }
45   function divideNum() {
46     firstnum = document.getElementById("num1").value;
47     secondnum = document.getElementById("num2").value;
48     document.getElementById("result").innerHTML = firstnum / secondnum;
49   }
50   function moduloNum() {
51     firstnum = document.getElementById("num1").value;
52     secondnum = document.getElementById("num2").value;
53     document.getElementById("result").innerHTML = firstnum % secondnum;
54   }
55 </script>
56 </body>
57 </html>
```



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Output:

Addition

Calculate of two numbers

Enter first number: 10

Enter second number: 5

Addition

Subtraction

Multiplication

Division

Modulos

15

Multiplication

Calculate of two numbers

Enter first number: 10

Enter second number: 5

Addition

Subtraction

Multiplication

Division

Modulos

50

Division:

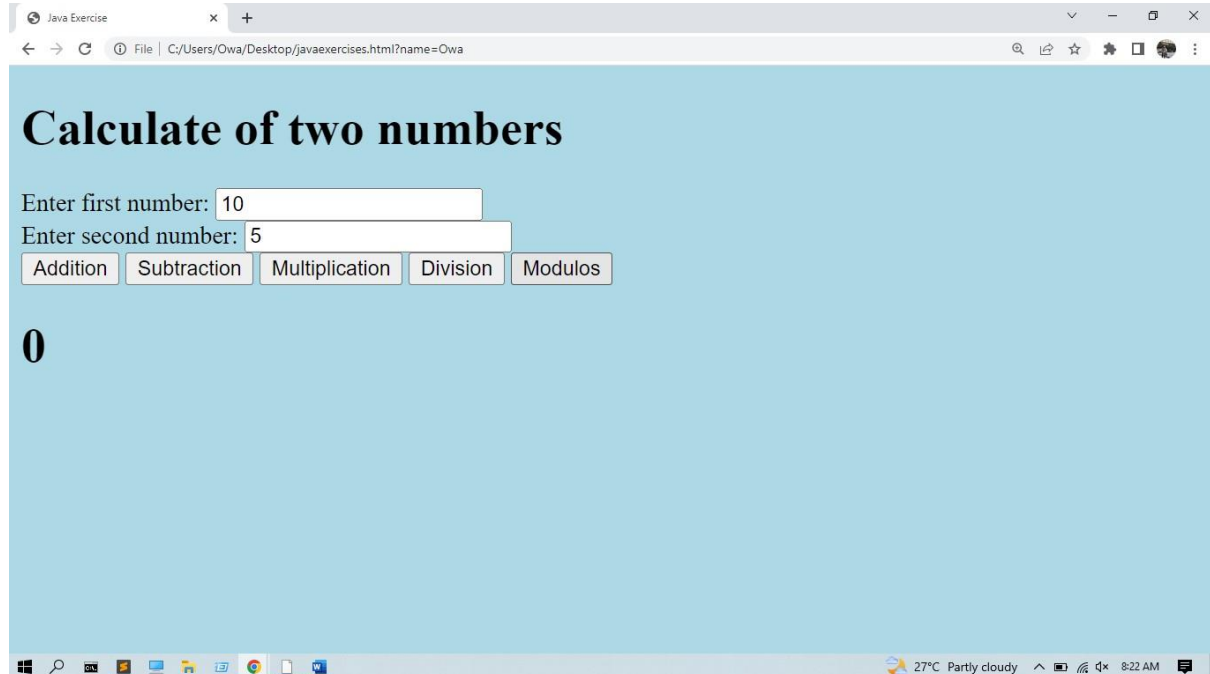
Calculate of two numbers

Enter first number:

Enter second number:

2

Modulus:



Java Exercise

File | C:/Users/Owa/Desktop/javaexercis.html?name=Owa

Calculate of two numbers

Enter first number:

Enter second number:

0

27°C Partly cloudy 8:22 AM

Exer #11: Create a JS program to find age group on the basis of age.

Age/Group:

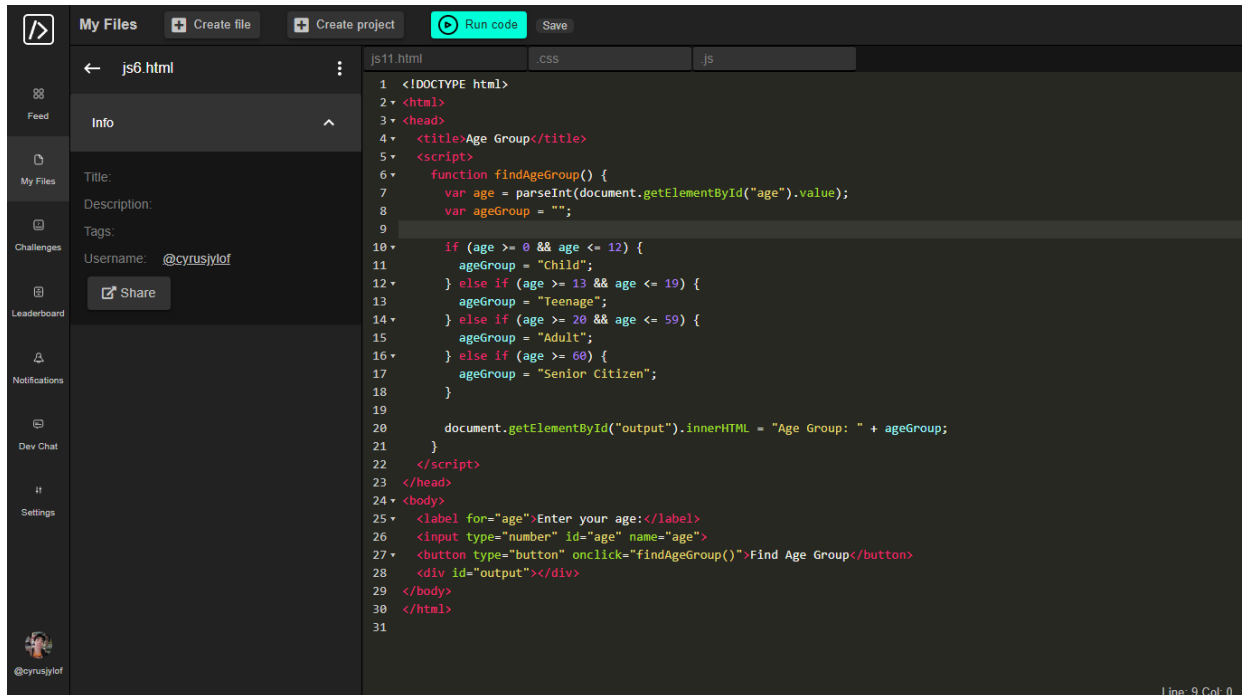
0-12/Child

13-19/Teenage

20-59/Adult

60 and Above/Senior Citizen

Code:



```
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <title>Age Group</title>
5 <script>
6 function findAgeGroup() {
7   var age = parseInt(document.getElementById("age").value);
8   var ageGroup = "";
9
10  if (age >= 0 && age <= 12) {
11    ageGroup = "Child";
12  } else if (age >= 13 && age <= 19) {
13    ageGroup = "Teenage";
14  } else if (age >= 20 && age <= 59) {
15    ageGroup = "Adult";
16  } else if (age >= 60) {
17    ageGroup = "Senior Citizen";
18  }
19
20  document.getElementById("output").innerHTML = "Age Group: " + ageGroup;
21 }
22 </script>
23 </head>
24 <body>
25 <label for="age">Enter your age:</label>
26 <input type="number" id="age" name="age">
27 <button type="button" onclick="findAgeGroup()">Find Age Group</button>
28 <div id="output"></div>
29 </body>
30 </html>
31
```

Output:

×

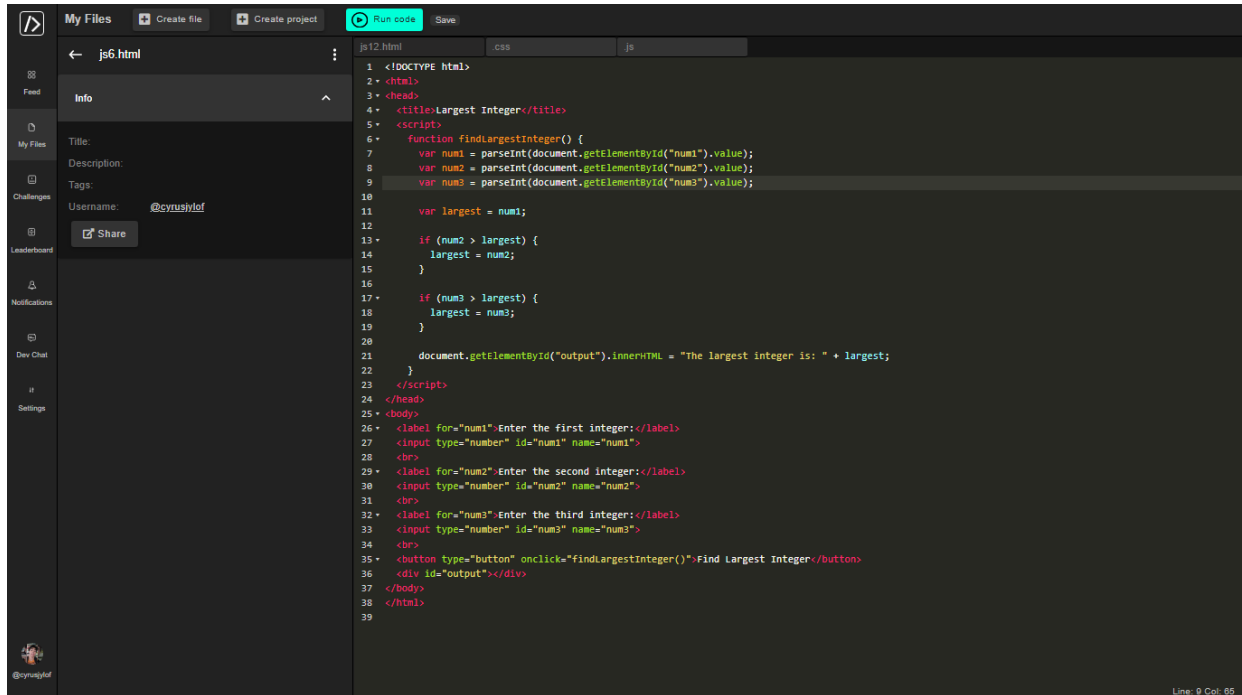
Output

Enter your age:

Age Group: Adult

Exer #12: Create a JS program that accepts three (3) integers and tells which integer is the largest among the three inputs.

Code:



```
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <title>Largest Integer</title>
5 <script>
6 function findLargestInteger() {
7   var num1 = parseInt(document.getElementById("num1").value);
8   var num2 = parseInt(document.getElementById("num2").value);
9   var num3 = parseInt(document.getElementById("num3").value);
10
11   var largest = num1;
12
13   if (num2 > largest) {
14     largest = num2;
15   }
16
17   if (num3 > largest) {
18     largest = num3;
19   }
20
21   document.getElementById("output").innerHTML = "The largest integer is: " + largest;
22 }
23 </script>
24 </head>
25 <body>
26 <label for="num1">Enter the first integer:</label>
27 <input type="number" id="num1" name="num1">
28 <br>
29 <label for="num2">Enter the second integer:</label>
30 <input type="number" id="num2" name="num2">
31 <br>
32 <label for="num3">Enter the third integer:</label>
33 <input type="number" id="num3" name="num3">
34 <br>
35 <button type="button" onclick="findLargestInteger()">Find Largest Integer</button>
36 <div id="output"></div>
37 </body>
38 </html>
```

Output:



Output

Enter the first integer:

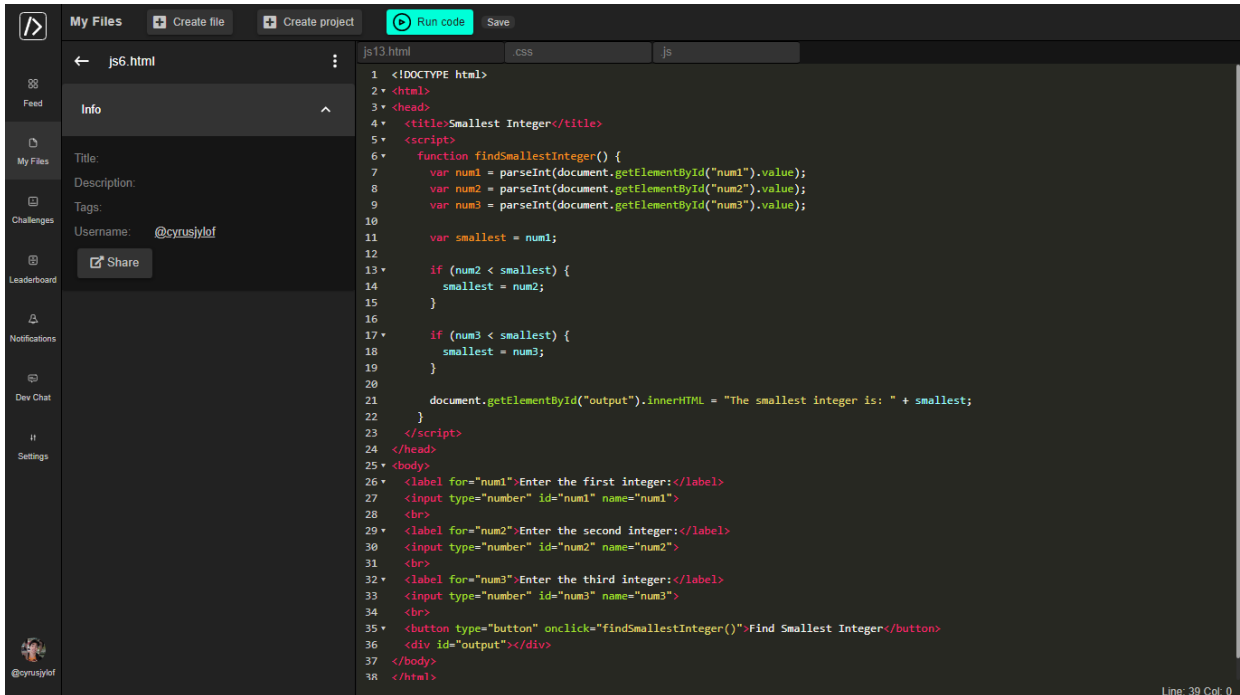
Enter the second integer:

Enter the third integer:

The largest integer is: 12

Exer #13: Create a JS program that accepts three (3) integers and tells which integer is the smallest among the three inputs.

Code:



```
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <title>Smallest Integer</title>
5 <script>
6 function findSmallestInteger() {
7   var num1 = parseInt(document.getElementById("num1").value);
8   var num2 = parseInt(document.getElementById("num2").value);
9   var num3 = parseInt(document.getElementById("num3").value);
10
11   var smallest = num1;
12
13   if (num2 < smallest) {
14     smallest = num2;
15   }
16
17   if (num3 < smallest) {
18     smallest = num3;
19   }
20
21   document.getElementById("output").innerHTML = "The smallest integer is: " + smallest;
22 }
23 </script>
24 </head>
25 <body>
26 <label for="num1">Enter the first integer:</label>
27 <input type="number" id="num1" name="num1">
28 <br>
29 <label for="num2">Enter the second integer:</label>
30 <input type="number" id="num2" name="num2">
31 <br>
32 <label for="num3">Enter the third integer:</label>
33 <input type="number" id="num3" name="num3">
34 <br>
35 <button type="button" onclick="findSmallestInteger()">Find Smallest Integer</button>
36 <div id="output"></div>
37 </body>
38 </html>
```

Output:



Output

Enter the first integer: 8

Enter the second integer: 7

Enter the third integer: 12

Find Smallest Integer

The smallest integer is: 7



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Exer #14: Create a JS program that accepts three (3) integers.
Find and display the average of the three (3) integers.

Code:

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <title>Average of Integers</title>
5 <script>
6 function calculateAverage() {
7   var num1 = parseInt(document.getElementById("num1").value);
8   var num2 = parseInt(document.getElementById("num2").value);
9   var num3 = parseInt(document.getElementById("num3").value);
10
11   var average = (num1 + num2 + num3) / 3;
12
13   document.getElementById("output").innerHTML = "The average is: " + average;
14 }
15 </script>
16 </head>
17 <body>
18 <label for="num1">Enter the first integer:</label>
19 <input type="number" id="num1" name="num1">
20 <br>
21 <label for="num2">Enter the second integer:</label>
22 <input type="number" id="num2" name="num2">
23 <br>
24 <label for="num3">Enter the third integer:</label>
25 <input type="number" id="num3" name="num3">
26 <br>
27 <button type="button" onclick="calculateAverage()">Calculate Average</button>
28 <div id="output"></div>
29 </body>
30 </html>
31
```

Output:

Enter the first integer: 7
Enter the second integer: 12
Enter the third integer: 8
Calculate Average
The average is: 9



Exer #15: Create a JS program to generate a Multiplication Table Entered by the user.
The output should display vertically.

Sample Output:

Code:

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <title>Multiplication Table</title>
5 <script>
6 function generateTable() {
7   var number = parseInt(document.getElementById("number").value);
8
9   var table = "";
10  for (var i = 1; i <= 10; i++) {
11    var result = number * i;
12    table += result + "<br>";
13  }
14
15  document.getElementById("output").innerHTML = table;
16 }
17 </script>
18 </head>
19 <body>
20 <label for="number">Enter a number:</label>
21 <input type="number" id="number" name="number">
22 <br>
23 <button type="button" onclick="generateTable()">Generate Multiplication Table</button>
24 <br>
25 <div id="output"></div>
26 </body>
27 </html>
28
```

Output:

Enter a number:

7
14
21
28
35
42
49
56
63
70