



Coding Exercises in JavaScript

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

USING + OPERATOR

The screenshot shows a Sublime Text editor window on the left with the following code in `javaexercises.html`:

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4   <title>Java Exercise</title>
5 </head>
6 <body>
7 <script>
8   const string1 = "I'm";
9   const string2 = ",Joshua";
10  const concatenatedString = string1 + string2;
11  document.write(concatenatedString);
12 </script>
13 </body>
14 </html>
15
```

On the right, a web browser window titled "Java Exercise" displays the output: "I'm,Joshua". The browser's address bar shows the file path: `C:/Users/Owa/Desktop/javaexercises.html?nam...`.

USING CONCAT METHOD

The screenshot shows a Sublime Text editor window on the left with the following code in `javaexercises.html`:

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4   <title>Java Exercise</title>
5 </head>
6 <body>
7 <script>
8   const string1 = "I'm";
9   const string2 = ",Joshua";
10  const concatenatedString = string1.concat(string2);
11  document.write(concatenatedString);
12 </script>
13 </body>
14 </html>
15
```

On the right, a web browser window titled "Java Exercise" displays the output: "I'm,Joshua". The browser's address bar shows the file path: `C:/Users/Owa/Desktop/javaexercises.html?nam...`.

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

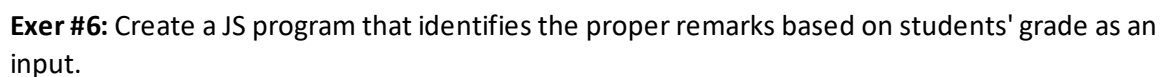
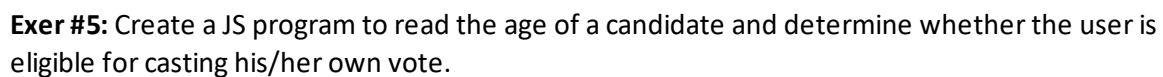
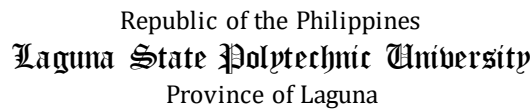


The screenshot shows a web browser window with the title "User Name Form". The page contains a form with a text input field labeled "Enter your name:" and a "Submit" button. Below the form, the output is displayed: "Output: Hello, owa!". The background of the browser window shows the source code of the HTML file, which includes a JavaScript function `displayOutput()` that takes the input value and concatenates it with "Hello, " and "!" to produce the output.

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

The screenshot shows a web browser window with the title "Day of the Week". The page has a light blue background and contains a form with a text input field labeled "Enter a week number (1-7):" and a "Get Day of Week" button. Below the form, the output is displayed: "Day of the week: Wednesday". The background of the browser window shows the source code of the HTML file, which includes a JavaScript function `getDayOfWeek()` that takes the input week number and returns the corresponding day of the week from an array.

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.





Grade Remarks

Enter your grade: 96

Check Remarks

Remarks: Excellent

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

Number Classification

Enter an integer: 2

Check

Number: 2 Positive: 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

The screenshot shows a web browser window titled 'Number Display' displaying the output of a JavaScript program. The page has a light blue background and contains three sections, each with a heading and a list of numbers from 0 to 15:

- 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

The background code in the Sublime Text editor shows the following JavaScript code:

```
<script>
let whileLoopResult = "";
let whileLoopCount = 0;
while (whileLoopCount <= 15) {
  whileLoopResult += whileLoopCount + " ";
  whileLoopCount++;
}
document.getElementById("whileLoopResult").textContent =
  whileLoopResult;

let doWhileLoopResult = "";
let doWhileLoopCount = 0;
do {
  doWhileLoopResult += doWhileLoopCount + " ";
  doWhileLoopCount++;
} while (doWhileLoopCount <= 15);
document.getElementById("doWhileLoopResult").textContent =
  doWhileLoopResult;

let forLoopResult = "";
for (let forLoopCount = 0; forLoopCount <= 15; forLoopCount++) {
  forLoopResult += forLoopCount + " ";
}
document.getElementById("forLoopResult").textContent =
  forLoopResult;
</script>
```

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.

The screenshot shows a web browser window titled 'Java Exercise' displaying the output of a JavaScript program. The page has a light blue background and contains a form with a text input field and a 'Submit' button. The input field contains the number '5'. Below the form, the result '125' is displayed.

The background code in the Sublime Text editor shows the following HTML and JavaScript code:

```
<div>
  <div>
    <label for="cube">Enter a number: </label>
    <input type="text" placeholder="Enter a number" name="
      cube" id="num1" required>
    <input type="button" name="" value="Submit" onclick="
      cubeNum()" id="submit">
    </div>
  </div>
</form>
<div>
  <span id="result"></span></div>
</div>
<script>
function cubeNum() {
  number = document.getElementById('num1').value;
  document.getElementById("result").innerHTML = number*number*
    number;
}
</script>
</body>
</html>
```

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



Republic of the Philippines
Laguna State Polytechnic University
Province of Laguna

```
C:\Users\Owa\Desktop\javaexercises.html - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help

javaexercises.html
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
19 <label for="numbe2">Enter second number: </label>
20 <input type="text" placeholder="Enter a number" name="cube" id="num2" required>
21 <br>
22 <input type="button" name="" value="Addition" onclick="addNum()" id="submit">
23 <input type="button" name="" value="Subtraction" onclick="subtractNum()" id="submit">
24 <input type="button" name="" value="Multiplication" onclick="multiplyNum()" id="submit">
25 <input type="button" name="" value="Division" onclick="divideNum()" id="submit">
26 <input type="button" name="" value="Modulos" onclick="moduloNum()" id="submit">
27 </div>
28 </div>
29 </form>
30 <h1><span id="result"></span></h1>
31 <script>
32 function addNum() {
33   firstnum = document.getElementById("num1").value;
34   secondnum = document.getElementById("num2").value;
35   document.getElementById("result").innerHTML = parseInt(firstnum) + parseInt(secondnum);
36 }
```

```
C:\Users\Owa\Desktop\javaexercises.html - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help

javaexercises.html
26 <input type="button" name="" value="Division" onclick="divideNum()" id="submit">
27 <input type="button" name="" value="Modulos" onclick="moduloNum()" id="submit">
28 </div>
29 </form>
30 <h1><span id="result"></span></h1>
31 <script>
32 function addNum() {
33   firstnum = document.getElementById("num1").value;
34   secondnum = document.getElementById("num2").value;
35   document.getElementById("result").innerHTML = parseInt(firstnum) + parseInt(secondnum);
36 }
37 function subtractNum() {
38   firstnum = document.getElementById("num1").value;
39   secondnum = document.getElementById("num2").value;
40   document.getElementById("result").innerHTML = firstnum - secondnum;
41 }
42 function multiplyNum() {
43   firstnum = document.getElementById("num1").value;
44   secondnum = document.getElementById("num2").value;
45   document.getElementById("result").innerHTML = firstnum * secondnum;
46 }
47 function divideNum() {
48   firstnum = document.getElementById("num1").value;
49   secondnum = document.getElementById("num2").value;
50   document.getElementById("result").innerHTML = firstnum / secondnum;
51 }
52 function moduloNum() {
53   firstnum = document.getElementById("num1").value;
54   secondnum = document.getElementById("num2").value;
55   document.getElementById("result").innerHTML = firstnum % secondnum;
56 }
57 </script>
58 </body>
59 </html>
60
```

- Addition



Java Exercise

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

Calculate of two numbers

Enter first number:

Enter second number:

15

27°C Partly cloudy 8:21 AM

- Subtraction

Java Exercise

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

Calculate of two numbers

Enter first number:

Enter second number:

15

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- Multiplication



Java Exercise

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

Calculate of two numbers

Enter first number: 10
Enter second number: 5

Addition Subtraction Multiplication Division Modulos

50

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- Division

Java Exercise

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

Calculate of two numbers

Enter first number: 10
Enter second number: 5

Addition Subtraction Multiplication Division Modulos

2

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- Modulus / Modulo



Java Exercise

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

Calculate of two numbers

Enter first number:

Enter second number:

0

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

Age/Group:

0-12/Child

javaexercises.html - Sublime Text (UNREGISTERED)

```
1 <style>
2   body{
3     background-color: lightblue;
4   }
5 </style>
6 </body>
7 <script>
8   function ageGroup() {
9     var age;
10    age = document.getElementById("number").value;
11
12    if (age <= 12) {
13      document.getElementById("result").innerHTML="Child";
14    }
15    else if (age >= 12 && age <= 19) {
16      document.getElementById("result").innerHTML="Teen";
17    }
18    else if (age >= 20 && age <= 59) {
19      document.getElementById("result").innerHTML="Adult";
20    }
21    else{
22      document.getElementById("result").innerHTML="Senior";
23    }
24  }
25 </script>
26 <form>
27   <h1>Your age Group</h1>
28   <h2>Type your age: <input type="number" id="number" name="
29   number"></input></h2>
30   <input type="button" onclick="ageGroup()" value="Submit">
31 </form>
32 <h1><span id="result"></span></h1>
33 </body>
34 </html>
```

Java Exercise

File | C:/Users/Owa/Desktop/javaexercises.html...

Your age Group

Type your age:

Child

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13-19/Teenage



javaexercises.html

```
1 <style>
2   body{
3     background-color: lightblue;
4   }
5 </style>
6 <body>
7 <script>
8 function ageGroup() {
9   var age;
10  age = document.getElementById("number").value;
11
12  if (age <= 12) {
13    document.getElementById("result").innerHTML="Child";
14  }
15  else if (age >= 12 && age <= 19) {
16    document.getElementById("result").innerHTML="Teen";
17  }
18  else if (age >= 20 && age <= 59) {
19    document.getElementById("result").innerHTML="Adult";
20  }
21  else{
22    document.getElementById("result").innerHTML="Senior";
23  }
24 </script>
25 <form>
26 <h1>Your age Group</h1>
27 <h2>Type your age: <input type="number" id="number" name="
28 number"></input></h2>
29 <input type="button" onclick="ageGroup()" value="Submit">
30 </form>
31 <h1><span id="result"></span></h1>
32 </body>
33 </html>
34
```

Java Exercise

C:/Users/Owa/Desktop/javaexercises.html...

Your age Group

Type your age:

Submit

Teen

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20-59/Adult

javaexercises.html

```
1 <style>
2   body{
3     background-color: lightblue;
4   }
5 </style>
6 <body>
7 <script>
8 function ageGroup() {
9   var age;
10  age = document.getElementById("number").value;
11
12  if (age <= 12) {
13    document.getElementById("result").innerHTML="Child";
14  }
15  else if (age >= 12 && age <= 19) {
16    document.getElementById("result").innerHTML="Teen";
17  }
18  else if (age >= 20 && age <= 59) {
19    document.getElementById("result").innerHTML="Adult";
20  }
21  else{
22    document.getElementById("result").innerHTML="Senior";
23  }
24 </script>
25 <form>
26 <h1>Your age Group</h1>
27 <h2>Type your age: <input type="number" id="number" name="
28 number"></input></h2>
29 <input type="button" onclick="ageGroup()" value="Submit">
30 </form>
31 <h1><span id="result"></span></h1>
32 </body>
33 </html>
34
```

Java Exercise

C:/Users/Owa/Desktop/javaexercises.html...

Your age Group

Type your age:

Submit

Adult

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60 and Above/Senior Citizen



The screenshot shows a web browser window displaying a web page titled "Your age Group". The page has a light blue background and contains the following text: "Your age Group", "Type your age: 60", a "Submit" button, and "Senior". The code editor on the left shows the HTML and JavaScript code for this page. The JavaScript code defines a function `ageGroup()` that takes the user's age as input and returns the corresponding age group: "Child", "Teen", "Adult", or "Senior".

```
<code><style>
body{
  background-color: lightblue;
}
</style>
<body>
<script>
function ageGroup() {
  var age;
  age = document.getElementById("number").value;

  if (age <= 12) {
    document.getElementById("result").innerHTML="Child";
  }
  else if (age >= 12 && age <= 19) {
    document.getElementById("result").innerHTML="Teen";
  }
  else if (age >= 20 && age <= 59) {
    document.getElementById("result").innerHTML="Adult";
  }
  else{
    document.getElementById("result").innerHTML="Senior";
  }
}
</script>
<form>
<h1>Your age Group</h1>
<h2>Type your age: <input type="number" id="number" name="number"></input></h2>
<input type="button" onclick="ageGroup()" value="Submit">
</form>
<h1><span id="result"></span></h1>
</body>
</html>
```

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

The screenshot shows a web browser window displaying a web page titled "Largest Integer". The page has a light blue background and contains the following text: "Enter the first number: 2", "Enter the second number: 1", "Enter the third number: 3", a "Find Largest" button, and "The largest integer is: 3". The code editor on the left shows the HTML and JavaScript code for this page. The JavaScript code defines a function `findLargestInteger()` that takes three integers as input and returns the largest one.

```
<code><h1>Largest Integer</h1>
<form id="inputForm">
  <label for="num1">Enter the first number:</label>
  <input type="number" id="num1" name="num1" required>
  <br>
  <label for="num2">Enter the second number:</label>
  <input type="number" id="num2" name="num2" required>
  <br>
  <label for="num3">Enter the third number:</label>
  <input type="number" id="num3" name="num3" required>
  <br>
  <button type="button" onclick="findLargestInteger()">Find Largest</button>
</form>
<h2 id="result"></h2>
<script>
function findLargestInteger() {
  // Get the input values
  const num1 = parseInt(document.getElementById("num1").value);
  const num2 = parseInt(document.getElementById("num2").value);
  const num3 = parseInt(document.getElementById("num3").value);
  let largest = num1;
  if (num2 > largest) {
    largest = num2;
  }
  if (num3 > largest) {
    largest = num3;
  }
  const resultElement = document.getElementById("result");
  resultElement.textContent = "The largest integer is: " + largest;
}
</script>
</body>
</html>
```

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



The screenshot shows a web browser window titled "Smallest Integer" with a light blue background. The page contains three input fields for numbers: 45, 6, and 1. A button labeled "Find Smallest" is below the inputs. The output displays "The smallest integer is: 1".

The source code in the background is as follows:

```
<html>
<head>
<title>Smallest Integer</title>
</head>
<body>
<style>body{background-color: skyblue;}</style>
<h1>Smallest Integer</h1>

<form id="inputForm">
  <label for="num1">Enter the first number:</label>
  <input type="number" id="num1" name="num1" required>
  <br>
  <label for="num2">Enter the second number:</label>
  <input type="number" id="num2" name="num2" required>
  <br>
  <label for="num3">Enter the third number:</label>
  <input type="number" id="num3" name="num3" required>
  <br>
  <button type="button" onclick="findSmallestInteger()">Find Smallest
</form>

<h2 id="result"></h2>

<script>
function findSmallestInteger() {
  // Get the input values
  const num1 = parseInt(document.getElementById("num1").value);
  const num2 = parseInt(document.getElementById("num2").value);
  const num3 = parseInt(document.getElementById("num3").value);
  let smallest = num1;
  if (num2 < smallest) {
    smallest = num2;
  }
  if (num3 < smallest) {
    smallest = num3;
  }
  const resultElement = document.getElementById("result");
  resultElement.textContent = "The smallest integer is: " +
    smallest;
}
</script>
</body>
</html>
```

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

The screenshot shows a web browser window titled "Average of Integers" with a light blue background. The page contains three input fields for numbers: 20, 10, and 50. A button labeled "Calculate Average" is below the inputs. The output displays "The average is: 26.67".

The source code in the background is as follows:

```
<!DOCTYPE html>
<html>
<head>
<title>Average of Integers</title>
</head>
<body>
<style>body{background-color: skyblue;}</style>
<h1>Average of Integers</h1>

<form id="inputForm">
  <label for="num1">Enter the first number:</label>
  <input type="number" id="num1" name="num1" required>
  <br>
  <label for="num2">Enter the second number:</label>
  <input type="number" id="num2" name="num2" required>
  <br>
  <label for="num3">Enter the third number:</label>
  <input type="number" id="num3" name="num3" required>
  <br>
  <button type="button" onclick="calculateAverage()">Calculate
  Average</button>
</form>

<h2 id="result"></h2>

<script>
function calculateAverage() {
  // Get the input values
  const num1 = parseInt(document.getElementById("num1").value);
  const num2 = parseInt(document.getElementById("num2").value);
  const num3 = parseInt(document.getElementById("num3").value);

  const average = (num1 + num2 + num3) / 3;
  const resultElement = document.getElementById("result");
  resultElement.textContent = "The average is: " + average.toFixed(
    2);
}
</script>
</body>
</html>
```

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



javaexercis.html

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <title>Multiplication Table</title>
5 </head>
6 <body>
7 <style>
8   body{
9     background-color: skyblue;
10  }
11 </style>
12 <h1>Multiplication Table</h1>
13
14 <form id="inputForm">
15   <label for="number">Enter a number:</label>
16   <input type="number" id="number" name="number" required>
17   <br>
18   <button type="button" onclick="generateMultiplicationTable()">
19     Generate Table</button>
20 </form>
21
22 <h2 id="result"></h2>
23
24 <script>
25   function generateMultiplicationTable() {
26     // Get the input value
27     const number = parseInt(document.getElementById("number").value);
28
29     let table = "";
30     for (let i = 1; i <= 10; i++) {
31       const result = number * i;
32       table += `${number} x ${i} = ${result}<br>`;
33     }
34     const resultElement = document.getElementById("result");
35     resultElement.innerHTML = table;
36   }
37 </script>
38 </body>
39 </html>
```

Multiplication Table

Enter a number:

Generate Table

5 x 1 = 5
5 x 2 = 10
5 x 3 = 15
5 x 4 = 20
5 x 5 = 25
5 x 6 = 30
5 x 7 = 35
5 x 8 = 40
5 x 9 = 45
5 x 10 = 50

27°C Partly cloudy

9:04 AM