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## 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:

The screenshot shows a Windows desktop environment with a browser window open. The browser title bar reads "W W3Schools Tryit Editor". The address bar shows the URL "w3schools.com/js/tryit.asp?filename=tryjs\_output\_dom". The main content area of the browser displays a "Run" button at the top right, followed by the text "Result Size: 369 x 218" and a green button labeled "Get your website". Below this, there is a code editor window containing the following JavaScript code:

```
<script>
document.write("Hello World!");
</script>
```

To the right of the code editor, the browser's output pane shows the result: "Hello World!". Above the browser window, a small advertisement for Google is visible with the text "Ad closed by Google". The taskbar at the bottom of the screen shows various pinned icons and the date/time "5/3/2023 9:55 AM".



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

The screenshot shows a Windows desktop environment. At the top, there is a taskbar with several icons. In the center, a Sublime Text window is open with three tabs: 'main.html', 'patient.html', and 'module.html'. The 'module.html' tab is active and contains the following code:

```
<!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <title>Javascript</title>
    <style>
        body{
            background-color: Lightgray;
        }
    </style>
</head>
<body>
    <h1>Ways to Concatenate</h1>
    <script>
        var name = "Bens Aguirre";
        var sentence = "I'm, " + name + ".";
        document.write(sentence + "<br><br>");
    </script>
</body>
</html>
```

At the bottom right of the screen, there is a system tray with weather information (28°C Mostly cloudy), the time (9:00 PM), and a date (5/15/2023).





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**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**

The screenshot shows a Sublime Text window with three tabs: 'main.html', 'patient.html', and 'module.html'. The 'main.html' tab is active and displays the following HTML and CSS code:

```
<!DOCTYPE html>
<html>
<head>
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1">
<title>Javascript</title>
<style>
body{
background-color: lightblue;
}
.h1{
text-align: center;
margin-left: 20px;
}
.h3{
text-align: center;
}
.form-container {
width: 300px;
margin: 30px auto;
text-align: center;
}
.form-container input[type="text"] {
padding: 10px;
width: 100%;
margin-bottom: 10px;
}
.form-container input[type="button"] {
padding: 10px 20px;
background-color: #4CAF50;
color: white;
border: none;
border-radius: 10px;
cursor: pointer;
}
</style>
```

The code defines a basic HTML structure with a style block containing CSS rules for the body, h1, h3, and form-container elements, along with styles for text input and button elements.



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C:\Users\admin\Desktop\module.html - Sublime Text (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

main.html    patient.html    module.html

```
31     padding: 10px 20px;
32     background-color: #4CAF50;
33     color: white;
34     border: none;
35     border-radius: 10px;
36     cursor: pointer;
37   }
38 
39 </head>
40 <body>
41   <script>
42     function yourName() {
43       var name;
44
45       name = document.getElementById("nameInput").value;
46       document.getElementById("result").innerHTML = name;
47     }
48 </script>
49   <h1 class="hh1">Please input your name</h1>
50   <div class="form-container">
51     <form>
52       <input type="text" id="nameInput" placeholder="Enter your name">
53       <input type="button" value="Submit" onClick="yourName()">
54     </form>
55   </div>
56   <h3><span id = "result"></span></h3>
57 </body>
58 </html>
```

Line 30, Column 39      Tab Size: 4      HTML

Windows Start Type here to search File 28°C Mostly cloudy 8:59 PM 5/15/2023

Javascript

File | C:/Users/admin/Desktop/module.html

# Please input your name

Bens Aguirre

Submit

Bens Aguirre

Windows Start Type here to search File 28°C Mostly cloudy 8:59 PM 5/15/2023



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**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

```
<!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <title>Javascript</title>
    <style>
        body{
            background-color: #e1e5eb;
        }
        h3{
            text-align: center;
            color: #4287f5;
        }
        .form-container {
            width: 300px;
            margin: 20px auto;
        }
        .form-group {
            margin-bottom: 10px;
        }
        .form-label {
            display: block;
            font-weight: bold;
        }
        .form-input {
            width: 100%;
            padding: 5px;
        }
        .result {
            margin-top: 20px;
            font-weight: bold;
            text-align: center;
        }
        #table{
            background-color: #555555;
            font-size: 20px;
            color: white;
            cursor: pointer;
            border-radius: 12px;
            margin-left: 120px;
        }
    </style>
</head>
</body>
<h3>Print the corresponding day of week name</h3>
<div class="form-container">
    <div class="form-group">
        <label class="form-label" for="numberInput">Enter a number:</label>
        <input type="number" id="numberInput" class="form-input" placeholder="Number">
    </div>
    <button onclick="generateDate()" id="table">Submit</button>
    <div id="result" class="result"></div>
</div>
<script>
    function generateDate() {
        // Get the week number from the input field
        const weekNumber = parseInt(document.getElementById("numberInput").value);

        // Determine the day of the week name
        let dayOfWeek;
        switch (weekNumber) {
            case 1:
```

32°C Heavy rain 1:07 PM 5/17/2023



C:\Users\admin\Desktop\module.html - Sublime Text (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

main.html patient.html module.html

```
67     switch (weekNumber) {
68         case 1:
69             dayOfWeek = "Monday";
70             break;
71         case 2:
72             dayOfWeek = "Tuesday";
73             break;
74         case 3:
75             dayOfWeek = "Wednesday";
76             break;
77         case 4:
78             dayOfWeek = "Thursday";
79             break;
80         case 5:
81             dayOfWeek = "Friday";
82             break;
83         case 6:
84             dayOfWeek = "Saturday";
85             break;
86         case 7:
87             dayOfWeek = "Sunday";
88             break;
89         default:
90             dayOfWeek = "Invalid week number";
91     }
92
93     // Display the result
94     const resultContainer = document.getElementById("result");
95     resultContainer.innerHTML = `<p class="result">${dayOfWeek}</p>`;
96 }
97 </script>
98 </body>
99 </html>
```

Line 90, Column 41 Tab Size: 4 HTML

Javascript

File | C:/Users/admin/Desktop/module.html

Print the corresponding day of week name

Enter a number:

1

Submit

Monday

32°C Heavy rain 1:07 PM 5/17/2023



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Javascript

File | C:/Users/admin/Desktop/module.html

Print the corresponding day of week name

Enter a number:

7

Submit

Sunday

Windows Start button Type here to search 32°C Heavy rain 1:08 PM 5/17/2023

**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.



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C:\Users\admin\Desktop\module.html - Sublime Text (UNREGISTERED)

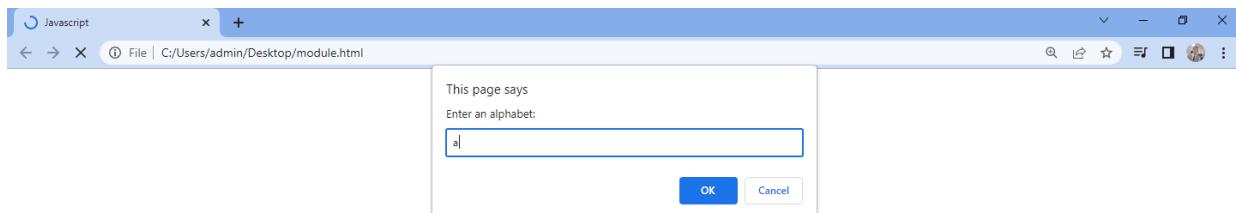
File Edit Selection Find View Goto Tools Project Preferences Help

main.html patient.html module.html

```
1 <!DOCTYPE html>
2 <html>
3   <head>
4     <meta charset="utf-8">
5     <meta name="viewport" content="width=device-width, initial-scale=1">
6     <title>Javascript</title>
7     <style>
8     </style>
9   </head>
10  <body>
11    <script>
12      // Prompt the user to enter an alphabet character
13      var character = prompt("Enter an alphabet:");
14
15      // Check if the character is a vowel or a consonant
16      if (character == 'a' || character == 'e' || character == 'i' || character == 'o' || character == 'u') {
17        alert(character + " is a vowel.");
18      }else if(character == 'A' || character == 'E' || character == 'I' || character == 'O' || character == 'U'){
19        alert(character + " is a vowel.");
20      }else{
21        alert(character + " is a consonant.");
22      }
23    </script>
24  </body>
25 </html>
```

Line 19, Column 39 Tab Size: 4 HTML

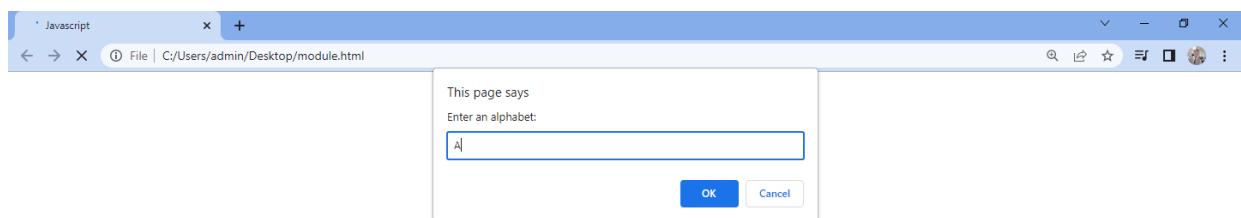
Windows Start Type here to search 28°C Mostly cloudy 10:12 PM 5/15/2023





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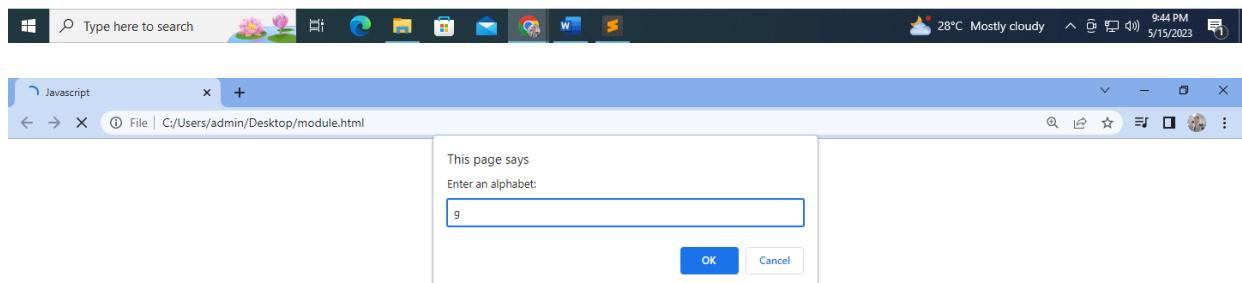
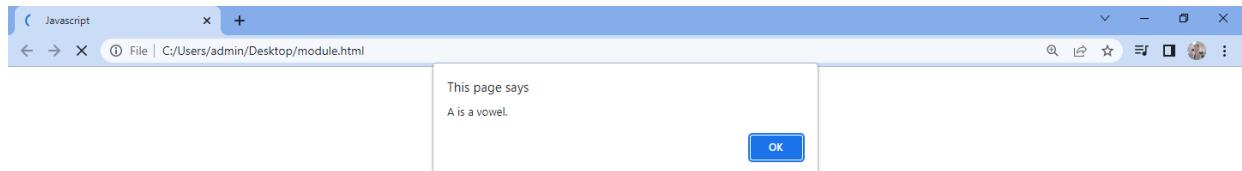
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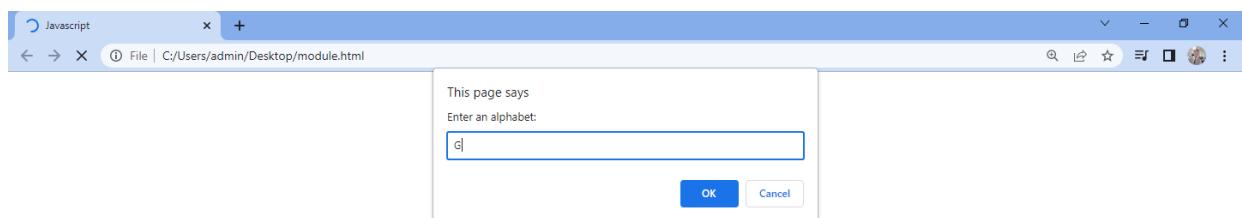
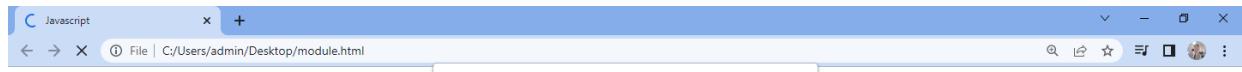
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**Exer #5:** Create a JS program to read the age of a candidate and determine whether the user is eligible for casting his/her own vote.

Eligibility: 18 Years old and above

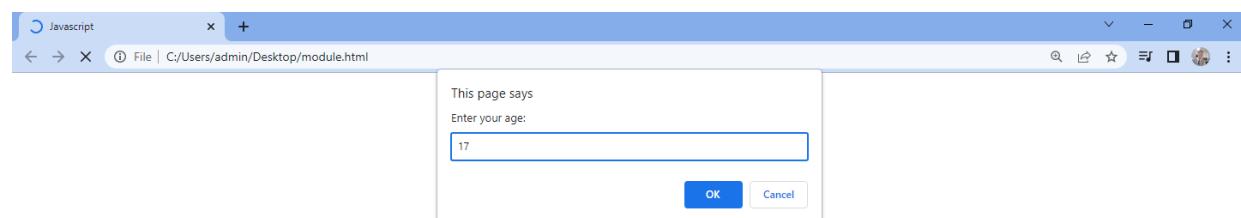
C:\Users\admin\Desktop\module.html - Sublime Text (UNREGISTERED)

```
File Edit Selection Find View Goto Tools Project Preferences Help
main.html patient.html module.html

1 <!DOCTYPE html>
2 <html>
3 <head>
4   <meta charset="utf-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1">
6   <title>Javascript</title>
7   <style>
8   </style>
9 </head>
10 <body>
11 <script>
12   // Prompt the user to enter their age
13   var age = parseInt(prompt("Enter your age:"));
14
15   // Check if the age is greater than or equal to 18
16   if (age >= 18) {
17     alert("You are eligible to cast your vote.");
18   } else {
19     alert("You are not eligible to cast your vote.");
20   }
21 </script>
22 </body>
23 </html>
```

Line 19, Column 40 Tab Size: 4 HTML

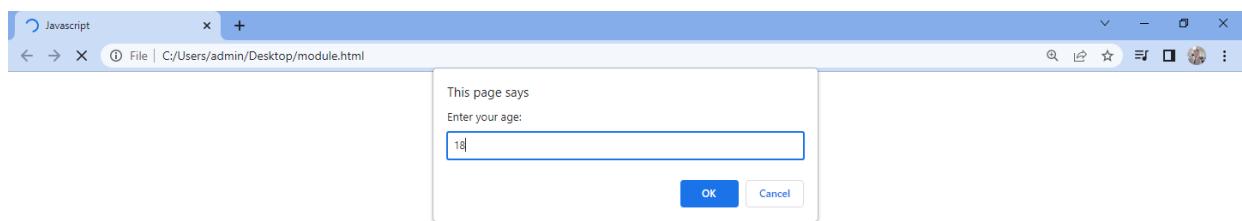
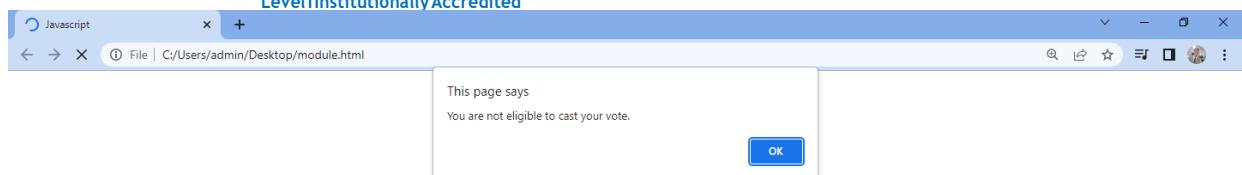
Windows Start button Type here to search Taskbar icons Weather 28°C Mostly cloudy 10:29 PM 5/15/2023





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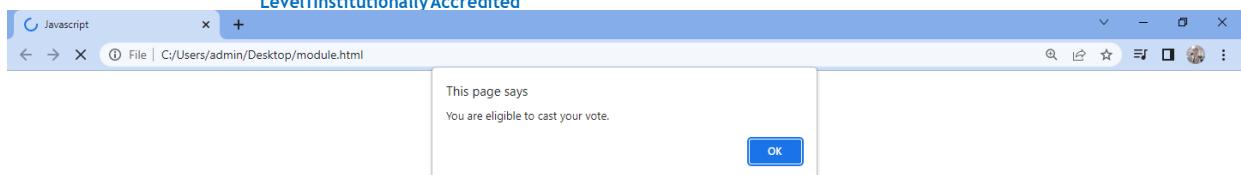
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**Exer #6:** Create a JS program that identifies the proper remarks based on students' grade as an input.

## 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**

```
<!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <title>Javascript</title>
    <style>
    </style>
</head>
<body>
<script>
// Prompt the user to enter the student's grade
var grade = parseInt(prompt("Enter the student's grade:"));

// Identify the remark based on the grade
var remark;
if (grade >= 96 && grade <= 100) {
    remark = "Excellent";
} else if (grade >= 90 && grade <= 95) {
    remark = "Very Satisfactory";
} else if (grade >= 84 && grade <= 89) {
    remark = "Satisfactory";
} else if (grade >= 78 && grade <= 83) {
    remark = "Fairly Satisfactory";
} else if (grade >= 75 && grade <= 77) {
    remark = "Passed";
} else if (grade >= 70 && grade <= 74) {
    remark = "Conditional Failure";
} else {
    remark = "Failed";
}

// Print the remark
alert("Remark: " + remark);
</script>
</body>
</html>
```



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This page says  
Enter the student's grade:

97

OK

Cancel



This page says  
Remark: Excellent

OK





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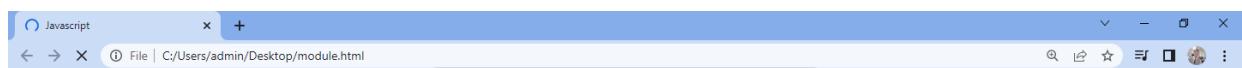


This page says  
Enter the student's grade:

93

OK

Cancel



This page says  
Remark: Very Satisfactory

OK





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This page says  
Enter the student's grade:

88

OK

Cancel



This page says  
Remark: Satisfactory

OK





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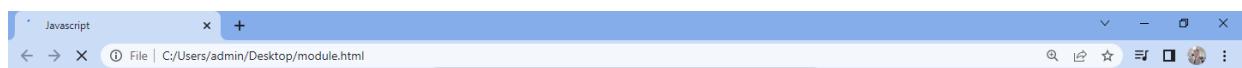


This page says  
Enter the student's grade:

81

OK

Cancel



This page says  
Remark: Fairly Satisfactory

OK



PREPARED BY: ALEJANDRO V. MATUTE JR. – IT INSTRUCTOR



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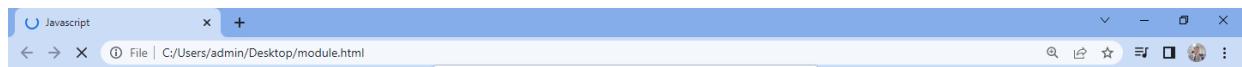


This page says  
Enter the student's grade:

76

OK

Cancel



This page says  
Remark: Passed

OK





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This page says  
Enter the student's grade:

65

OK

Cancel



This page says  
Remark: Failed

OK



PREPARED BY: ALEJANDRO V. MATUTE JR. – IT INSTRUCTOR



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**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

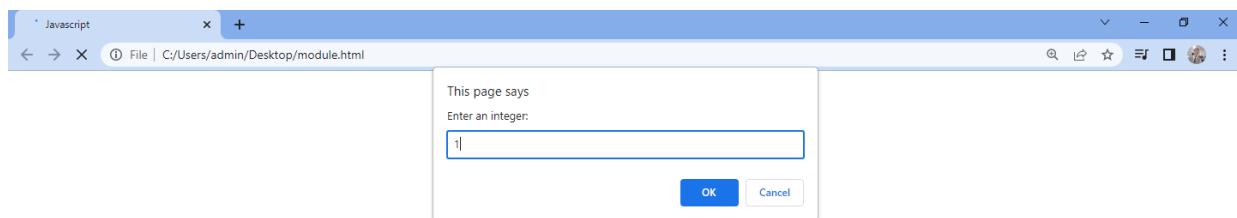
The screenshot shows a Sublime Text window with three tabs: 'main.html', 'patient.html', and 'module.html'. The 'module.html' tab is active and contains the following code:

```
<!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <title>Javascript</title>
    <style>
        </style>
</head>
<body>
<script>
    // Accept input from the user
    const number = parseInt(prompt("Enter an integer:"));

    // Check if the number is positive or negative
    const positivity = number > 0 ? "Positive" : "Negative";

    // Check if the number is odd or even
    const parity = number % 2 === 0 ? "Even" : "Odd";

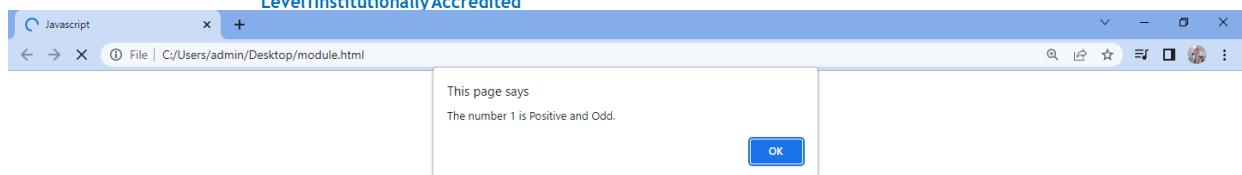
    // Display the results
    alert(`The number ${number} is ${positivity} and ${parity}.`);
</script>
</body>
</html>
```





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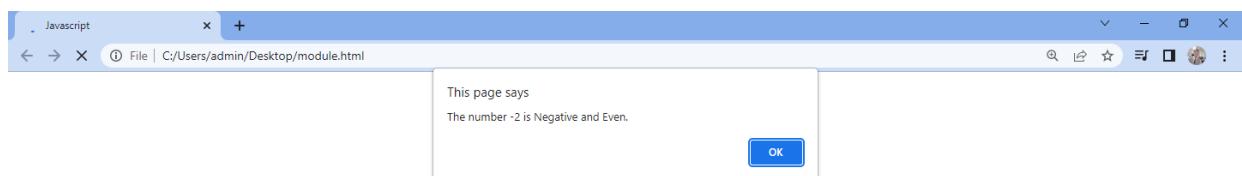
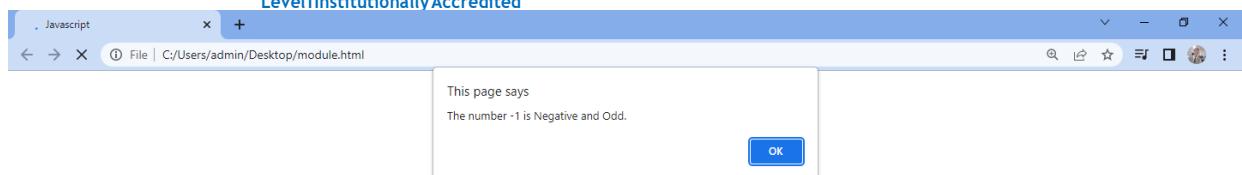
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**Exer #8:** Create a JS Program that will display an integer from 0 to 15 using the following looping statements:

- while loop
- do-while loop
- for loop

Print the result in vertical order.

Sample output:

1  
2  
3  
4  
5

```
4     <meta charset="utf-8">
5     <meta name="viewport" content="width=device-width, initial-scale=1">
6     <title>Javascript</title>
7     <style>
8         body{
9             background-color: #Cebca0;
10        }
11    </style>
12  </head>
13  <body>
14  <script>
15      document.write("<h3>While Loop<h3>");
16      var i = 0;
17      while (i <= 15){
18          document.write(i + "<br>");
19          i++;
20      }
21      document.write("<br>");
22      document.write("<hr>");
23
24      document.write("<h3>Do-While Loop<h3>");
25      var i = 0;
26      do{
27          document.write(i + "<br>");
28          i++;
29      }
30      while (i <= 15);
31
32      document.write("<br>");
33      document.write("<hr>");
34
35      document.write("<h3>For Loop<h3>");
36      for(var i = 0; i <= 15; i++){
37          document.write(i + "<br>");
38      }
39  </script>
40  </body>
41  </html>
```



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```
Javascript
File | C:/Users/admin/Desktop/module.html
While Loop

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

The screenshot shows a Microsoft Edge browser window titled "Javascript". The address bar shows the file path "C:/Users/admin/Desktop/module.html". The main content area displays the text "While Loop" followed by a series of integers from 0 to 15, each on a new line. The browser interface includes standard navigation buttons, a search bar, and a taskbar at the bottom with various pinned icons like File Explorer, Mail, and Google Chrome. The system tray shows the date and time as 5/16/2023, 10:33 PM, and the weather as 27°C Mostly cloudy.

```
Javascript
File | C:/Users/admin/Desktop/module.html
Do-While Loop

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

The screenshot shows a Microsoft Edge browser window titled "Javascript". The address bar shows the file path "C:/Users/admin/Desktop/module.html". The main content area displays the text "Do-While Loop" followed by a series of integers from 0 to 15, each on a new line. The browser interface includes standard navigation buttons, a search bar, and a taskbar at the bottom with various pinned icons like File Explorer, Mail, and Google Chrome. The system tray shows the date and time as 5/16/2023, 10:33 PM, and the weather as 27°C Mostly cloudy.



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```
Javascript x +  
File | C:/Users/admin/Desktop/module.html  
  
For Loop  
  
0  
1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15
```

The screenshot shows a Microsoft Windows desktop environment. A browser window titled "Javascript" is open, displaying a simple "For Loop" program output. The output consists of integers from 0 to 15, each on a new line. Below the browser is the Windows taskbar, which includes the Start button, a search bar, pinned application icons (Photoshop, File Explorer, Task View, Mail, Google Chrome, File History, and Windows Defender), and system status indicators (weather, battery, date, and time).



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**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.

```
<!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <title>Javascript</title>
    <style>
        body {
            display: flex;
            justify-content: center;
            font-family: Roboto, Arial, sans-serif;
            font-size: 15px;
        }
        form {
            border: 5px solid #f1f1f1;
        }
        input[type=text] {
            width: 100%;
            padding: 16px 8px;
            margin: 8px 0;
            display: inline-block;
            border: 1px solid #ccc;
            box-sizing: border-box;
        }
        #submit {
            background-color: #8ebf42;
            color: white;
            padding: 14px 0;
            margin: 10px 0;
            border: none;
            cursor: grabbing;
            width: 100%;
        }
        h1 {
            text-align:center;
            font-size:18;
        }
        #submit:hover {
    
```

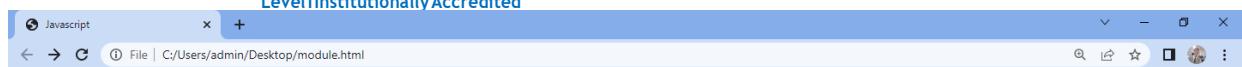
```

    }
    .formcontainer {
        text-align: left;
        margin: 24px 50px 12px;
    }
    .container {
        padding: 16px 0;
        text-align:left;
    }
</style>
</head>
</body>
<form>
    <h1>Cube A Number</h1>
    <div class="formcontainer">
        <hr/>
        <div class="container">
            <label for="cube"><strong>Enter a number</strong></label>
            <input type="text" placeholder="Enter a number" name="cube" id="num1" required>
            <input type="button" name="" value="Submit" onclick="cubeNum()" id="submit">
        </div>
    </form>
    <h1><span id="result"></span></h1>
<script>
    function cubeNum(){
        number = document.getElementById("num1").value;
        document.getElementById("result").innerHTML = number*number*number;
    }
</script>
</body>
</html>
```



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## Cube A Number

Enter a number

6

Submit

216



**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 Two Numbers

Enter First Number :   
Enter Second Number:

The Result is :





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

1 <!DOCTYPE html>
2 <html>
3   <head>
4     <meta charset="utf-8">
5     <meta name="viewport" content="width=device-width, initial-scale=1">
6     <title>Javascript</title>
7     <style>
8       body {
9         display: flex;
10        justify-content: center;
11        font-family: Roboto, Arial, sans-serif;
12        font-size: 15px;
13        background-color: #2d2b2b;
14      }
15      form {
16        border: 5px solid #f1f1f1;
17        background-color: white;
18      }
19      input[type=number] {
20        width: 100%;
21        padding: 5px 8px;
22        margin: 8px 0;
23        display: inline-block;
24        border: 1px solid #ccc;
25        box-sizing: border-box;
26      }
27      #submit {
28        background-color: #4286f4;
29        color: white;
30        padding: 10px 0;
31        margin: 10px 0;
32        border: none;
33        cursor: pointer;
34        width: 18%;
35      }
36      h1 {
37        text-align:center;
38        font-size:18;
```

Line 95, Column 65 Tab Size: 4 HTML

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

40    #submit:hover {
41      opacity: 0.8;
42    }
43    .formcontainer {
44      text-align: center;
45      margin: 24px 50px 12px;
46    }
47    .container {
48      padding: 16px 0;
49      text-align:left;
50    }
51  </style>
52 </head>
53 </body>
54 <form>
55   <h1>Calculate Two Numbers</h1>
56   <div class="formcontainer">
57     <hr/>
58     <div class="container">
59       <label for="numone"><strong>Enter first number</strong></label>
60       <input type="number" placeholder="Enter a number" name="numone" id="num1" required><br>
61       <label for="numtwo"><strong>Enter second number</strong></label>
62       <input type="number" placeholder="Enter a number" name="numtwo" id="num2" required><br>
63       <input type="button" name="" value="Add" onclick="addNum()" id="submit">
64       <input type="button" name="" value="Subtract" onclick="subtractNum()" id="submit">
65       <input type="button" name="" value="Multiply" onclick="multiplyNum()" id="submit">
66       <input type="button" name="" value="Divide" onclick="divideNum()" id="submit">
67       <input type="button" name="" value="Modulo" onclick="moduloNum()" id="submit">
68     </div>
69   </form>
70   <h1><span id="result"></span></h1>
71 <script>
72   function addNum(){
73     firstnum = document.getElementById("num1").value;
74     secondnum = document.getElementById("num2").value;
75     document.getElementById("result").innerHTML = parseInt(firstnum) + parseInt(secondnum);
76   }
77   function subtractNum(){
```

Line 95, Column 65 Tab Size: 4 HTML



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C:\Users\admin\Desktop\module.html - Sublime Text (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

main.html patient.html module.html

```
67     <input type="button" name="" value="Modulo" onclick="moduloNum()" id="submit">
68   </div>
69   </form>
70   <h1><span id="result"></span></h1>
71 <script>
72   function addNum(){
73     firstnum = document.getElementById("num1").value;
74     secondnum = document.getElementById("num2").value;
75     document.getElementById("result").innerHTML = parseInt(firstnum) + parseInt(secondnum);
76   }
77   function subtractNum(){
78     firstnum = document.getElementById("num1").value;
79     secondnum = document.getElementById("num2").value;
80     document.getElementById("result").innerHTML = firstnum - secondnum;
81   }
82   function multiplyNum(){
83     firstnum = document.getElementById("num1").value;
84     secondnum = document.getElementById("num2").value;
85     document.getElementById("result").innerHTML = firstnum * secondnum;
86   }
87   function divideNum(){
88     firstnum = document.getElementById("num1").value;
89     secondnum = document.getElementById("num2").value;
90     document.getElementById("result").innerHTML = firstnum / secondnum;
91   }
92   function moduloNum(){
93     firstnum = document.getElementById("num1").value;
94     secondnum = document.getElementById("num2").value;
95     document.getElementById("result").innerHTML = firstnum % secondnum;
96   }
97 </script>
98 </body>
99 </html>
```

Line 95, Column 65 Tab Size: 4 HTML

Windows Type here to search 27°C Mostly cloudy 11:47 PM 5/16/2023

Javascript File | C:/Users/admin/Desktop/module.html

# Calculate Two Numbers

---

Enter first number  
20

Enter second number  
13

Add Subtract Multiply Divide Modulo

33



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Javascript

File | C:/Users/admin/Desktop/module.html

## Calculate Two Numbers

Enter first number

Enter second number

Add   Subtract   Multiply   Divide   Modulo

5

27°C Mostly cloudy 11:49 PM 5/16/2023

Javascript

File | C:/Users/admin/Desktop/module.html

## Calculate Two Numbers

Enter first number

Enter second number

Add   Subtract   Multiply   Divide   Modulo

35

27°C Mostly cloudy 11:50 PM 5/16/2023



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Javascript

File | C:/Users/admin/Desktop/module.html

## Calculate Two Numbers

Enter first number

Enter second number

Add   Subtract   Multiply   Divide   Modulo

10

27°C Mostly cloudy 11:50 PM 5/16/2023

Javascript

File | C:/Users/admin/Desktop/module.html

## Calculate Two Numbers

Enter first number

Enter second number

Add   Subtract   Multiply   Divide   Modulo

3

27°C Mostly cloudy 11:51 PM 5/16/2023



**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

```
File Edit Selection Find View Goto Tools Project Preferences Help
main.html patient.html module.html
<head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <title>Javascript</title>
    <style>
        body {
            display: flex;
            justify-content: center;
            font-family: Roboto, Arial, sans-serif;
            font-size: 15px;
            background-color: #2d2b2b;
        }
        form {
            border: 5px solid #f1f1f1;
            background-color: white;
            border-radius: 10px;
        }
        input[type=number] {
            width: 100%;
            padding: 5px 8px;
            margin: 8px 0;
            display: inline-block;
            border: 1px solid #ccc;
            box-sizing: border-box;
        }
        #submit {
            background-color: #4286f4;
            color: white;
            padding: 10px 0;
            margin: 10px 0;
            border: none;
            cursor: pointer;
            width: 30%;
            border-radius: 5px;
        }
    </style>

```

Line 66, Column 9      Tab Size: 4      HTML

```
File Edit Selection Find View Goto Tools Project Preferences Help
main.html patient.html module.html
        border-radius: 5px;
    }
    h1 {
        text-align:center;
        font-size:18;
    }
    #submit:hover {
        opacity: 0.8;
    }
    .formcontainer {
        margin: 24px 50px 12px;
    }
    .container {
        padding: 16px 0;
        text-align:left;
    }
</style>
</head>
</body>
<form>
    <h1>Know Your Age Group</h1>
    <div class="formcontainer">
        <hr/>
        <div class="container">
            <label for="numone"><strong>Enter a number</strong></label>
            <input type="number" placeholder="Enter a number" name="numone" id="num1" required><br>
            <input type="button" name="" value="Submit" onclick="ageCheck()" id="submit">
        </div>
    </form>
    <h1><span id="result"></span></h1>
<script>
    function ageCheck(){
        var age;
        age = document.getElementById("num1").value;
```

Line 66, Column 9      Tab Size: 4      HTML



The screenshot shows a Sublime Text window with three tabs: 'main.html', 'patient.html', and 'module.html'. The 'main.html' tab is active and displays the following code:

```
54 </body>
55 </form>
56     <h1>Know Your Age Group</h1>
57     <div class="formcontainer">
58         <hr/>
59         <div class="container">
60             <label for="numone"><strong>Enter a number</strong></label>
61             <input type="number" placeholder="Enter a number" name="numone" id="num1" required><br>
62             <input type="button" name="" value="Submit" onclick="ageCheck()" id="submit">
63         </div>
64     </form>
65     <h1><span id="result"></span></h1>
66 <script>
67     function ageCheck(){
68         var age;
69         age = document.getElementById("num1").value;
70
71         if(age <= 12) {
72             document.getElementById("result").innerHTML = "Child";
73         }
74         else if(age >= 13 && age <= 19) {
75             document.getElementById("result").innerHTML = "Teen";
76         }
77         else if(age >= 20 && age <= 59) {
78             document.getElementById("result").innerHTML = "Adult";
79         }
80         else{
81             document.getElementById("result").innerHTML = "Senior Citizen";
82         }
83     }
84 </script>
85 </body>
86 </html>
```

The status bar at the bottom indicates 'Line 66, Column 9' and 'Tab Size: 4'. The system tray shows the date and time as '5/17/2023 12:09 AM'.

The screenshot shows a Microsoft Edge browser window with the title 'Javascript'. The address bar shows 'File | C:/Users/admin/Desktop/module.html'. The page content is as follows:

# Know Your Age Group

---

Enter a number

Submit

Child

The status bar at the bottom indicates '27°C Mostly cloudy' and '5/17/2023 12:10 AM'.



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Javascript    +

File | C:/Users/admin/Desktop/module.html

# Know Your Age Group

---

Enter a number

Submit

Teen

Windows Type here to search Camera Task View Internet Explorer File Mail Google Chrome Start 27°C Mostly cloudy 12:10 AM 5/17/2023

Javascript    +

File | C:/Users/admin/Desktop/module.html

# Know Your Age Group

---

Enter a number

Submit

Adult

Windows Type here to search Camera Task View Internet Explorer File Mail Google Chrome Start 27°C Mostly cloudy 12:11 AM 5/17/2023



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Know Your Age Group

Enter a number

70

Submit

Senior Citizen

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

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

1 <!DOCTYPE html>
2 <html>
3 <head>
4   <meta charset="utf-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1">
6   <title>Javascript</title>
7   <style>
8   </style>
9 </head>
10 </body>
11 <script>
12   const number1 = parseInt(prompt("Enter the first integer:"));
13   const number2 = parseInt(prompt("Enter the second integer:"));
14   const number3 = parseInt(prompt("Enter the third integer:"));
15
16   // Determine the largest integer
17   let largestNumber = number1;
18
19   if (number2 > largestNumber) {
20     largestNumber = number2;
21   }
22
23   if (number3 > largestNumber) {
24     largestNumber = number3;
25   }
26
27   // Display the result
28   alert(`The largest number among ${number1}, ${number2}, and ${number3} is ${largestNumber}.`);
29 </script>
30 </body>
31 </html>
```



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This page says  
Enter the first integer:

2

OK

Cancel



This page says  
Enter the second integer:

6

OK

Cancel





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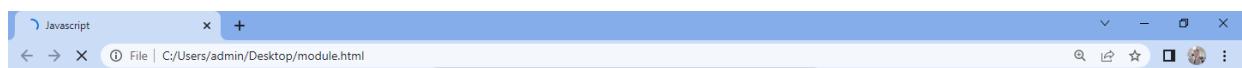
This page says

Enter the third integer:

15

OK

Cancel



This page says

The largest number among 2, 6, and 15 is 15.

OK





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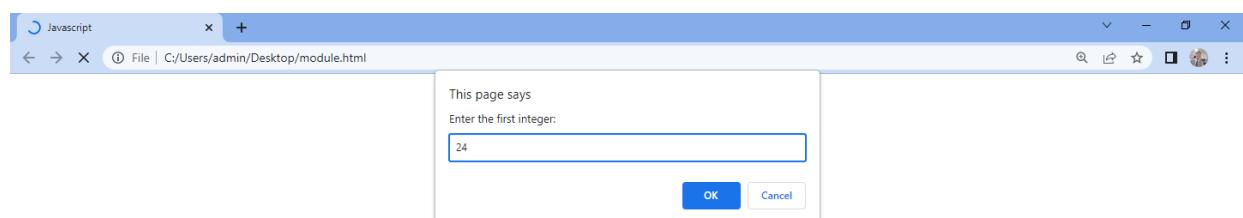
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**Exer #13:** Create a JS program that accepts three (3) integers and tells which integer is the smallest among the three inputs.

The screenshot shows a Sublime Text window with three tabs: 'main.html', 'patient.html', and 'module.html'. The 'module.html' tab is active and displays the following JavaScript code:

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4   <meta charset="utf-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1">
6   <title>Javascript</title>
7   <style>
8   </style>
9 </head>
10 <body>
11 <script>
12   const number1 = parseInt(prompt("Enter the first integer:"));
13   const number2 = parseInt(prompt("Enter the second integer:"));
14   const number3 = parseInt(prompt("Enter the third integer:"));
15
16   // Determine the largest integer
17   let smallestNumber = number1;
18
19   if (number2 < smallestNumber) {
20     smallestNumber = number2;
21   }
22
23   if (number3 < smallestNumber) {
24     smallestNumber = number3;
25   }
26
27   // Display the result
28   alert(`The smallest number among ${number1}, ${number2}, and ${number3} is ${smallestNumber}.`);
29 </script>
30 </body>
31 </html>
```

The status bar at the bottom indicates 'Line 29, Column 10' and 'Tab Size: 4'. The system tray shows the date and time as '5/17/2023 12:19 AM'.





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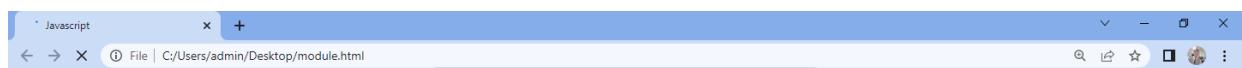


This page says  
Enter the second integer:

1

OK

Cancel



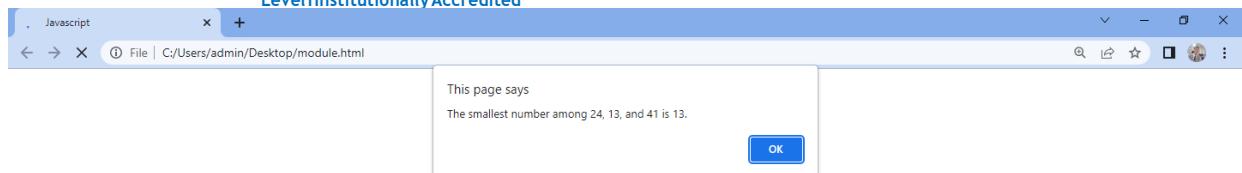
This page says  
Enter the third integer:

4

OK

Cancel





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

```
C:\Users\admin\Desktop\module.html - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
main.html | patient.html | module.html
1 <!DOCTYPE html>
2 <html>
3 <head>
4   <meta charset="utf-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1">
6   <title>Javascript</title>
7   <style>
8   </style>
9 </head>
10 </body>
11 <script>
12   const number1 = parseInt(prompt("Enter the first integer:"));
13   const number2 = parseInt(prompt("Enter the second integer:"));
14   const number3 = parseInt(prompt("Enter the third integer:"));
15
16   // Calculate the average
17   const average = (number1 + number2 + number3) / 3;
18
19   // Display the result
20   alert(`The average of ${number1}, ${number2}, and ${number3} is ${average}.`);
21 </script>
22 </body>
23 </html>
```

Line 23, Column 6      Tab Size: 4      HTML



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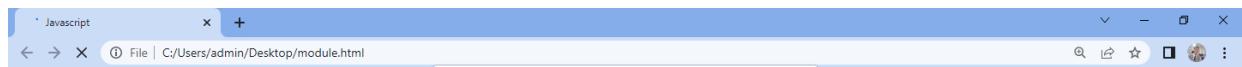


This page says  
Enter the first integer:

14

OK

Cancel



This page says  
Enter the second integer:

4

OK

Cancel





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This page says  
Enter the third integer:

20

OK

Cancel



This page says  
The average of 14, 4, and 20 is 12.666666666666666.

OK



PREPARED BY: ALEJANDRO V. MATUTE JR. – IT INSTRUCTOR



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

Sample Output:

Generate Multiplication Table Entered By User

Enter an Integer:   
Enter the Range:

**8 x 1 = 8  
8 x 2 = 16  
8 x 3 = 24  
8 x 4 = 32  
8 x 5 = 40  
8 x 6 = 48  
8 x 7 = 56  
8 x 8 = 64  
8 x 9 = 72  
8 x 10 = 80**



C:\Users\admin\Desktop\module.html - Sublime Text (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

main.html patient.html module.html

```
1 <!DOCTYPE html>
2 <html>
3   <head>
4     <meta charset="utf-8">
5     <meta name="viewport" content="width=device-width, initial-scale=1">
6     <title>Javascript</title>
7     <style>
8       body{
9         background-color: powderblue;
10      }
11      h3{
12        text-align: center;
13        color: red;
14      }
15
16      .form-container {
17        width: 300px;
18        margin: 20px auto;
19      }
20
21      .form-group {
22        margin-bottom: 10px;
23      }
24
25      .form-label {
26        display: block;
27        font-weight: bold;
28      }
29
30      .form-input {
31        width: 100%;
32        padding: 5px;
33      }
34
35      .result {
36        margin-top: 20px;
37      }
38    
```

Line 38, Column 27

Tab Size: 4    HTML

27°C Mostly cloudy 12:44 AM 5/17/2023



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

34
35     .result {
36         margin-top: 20px;
37         font-weight: bold;
38         text-align: center;
39     }
40     #table{
41         background-color: #555555;
42         font-size: 20px;
43         color: white;
44         cursor: pointer;
45         border-radius: 12px;
46         margin-left: 70px;
47     }
48     </style>
49 </head>
50 </body>
51     <h3>Generate Multiplication Table Entered By User</h3>
52     <div class="form-container">
53         <div class="form-group">
54             <label class="form-label" for="numberInput">Enter a number:</label>
55             <input type="number" id="numberInput" class="form-input" placeholder="Number">
56         </div>
57         <div class="form-group">
58             <label class="form-label" for="rangeInput">Enter a range:</label>
59             <input type="number" id="rangeInput" class="form-input" placeholder="Range">
60         </div>
61         <button onclick="generateTable()" id="table">Generate Table</button>
62         <div id="result" class="result"></div>
63     </div>
64     <script>
65         function generateTable() {
66             // Get the number and range from the input fields
67             const number = parseInt(document.getElementById("numberInput").value);
68             const range = parseInt(document.getElementById("rangeInput").value);
69
70             // Validate and limit the range to 10
71             const validatedRange = Math.min(range, 10);
72
73             // Generate the multiplication table
74             let table = '';
75             for (let i = 1; i <= validatedRange; i++) {
76                 const result = number * i;
77                 table += `${number} x ${i} = ${result}<br>`;
78             }
79
80             // Display the table
81             document.getElementById("result").innerHTML = table;
82         }
83     </script>
84 </body>
85 </html>
```

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

55         <input type="number" id="numberInput" class="form-input" placeholder="Number">
56     </div>
57     <div class="form-group">
58         <label class="form-label" for="rangeInput">Enter a range:</label>
59         <input type="number" id="rangeInput" class="form-input" placeholder="Range">
60     </div>
61     <button onclick="generateTable()" id="table">Generate Table</button>
62     <div id="result" class="result"></div>
63     </div>
64     <script>
65         function generateTable() {
66             // Get the number and range from the input fields
67             const number = parseInt(document.getElementById("numberInput").value);
68             const range = parseInt(document.getElementById("rangeInput").value);
69
70             // Validate and limit the range to 10
71             const validatedRange = Math.min(range, 10);
72
73             // Generate the multiplication table
74             let table = '';
75             for (let i = 1; i <= validatedRange; i++) {
76                 const result = number * i;
77                 table += `${number} x ${i} = ${result}<br>`;
78             }
79
80             // Display the table
81             document.getElementById("result").innerHTML = table;
82         }
83     </script>
84 </body>
85 </html>
```



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### Generate Multiplication Table Entered By User

Enter a number:

Enter a range:

**Generate Table**

$4 \times 1 = 4$   
 $4 \times 2 = 8$   
 $4 \times 3 = 12$   
 $4 \times 4 = 16$   
 $4 \times 5 = 20$

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5/17/2023

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Enter a number:

Enter a range:

**Generate Table**

$7 \times 1 = 7$   
 $7 \times 2 = 14$   
 $7 \times 3 = 21$   
 $7 \times 4 = 28$   
 $7 \times 5 = 35$   
 $7 \times 6 = 42$   
 $7 \times 7 = 49$   
 $7 \times 8 = 56$   
 $7 \times 9 = 63$   
 $7 \times 10 = 70$

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Enter a number:

Enter a range:

**Generate Table**

$2 \times 1 = 2$   
 $2 \times 2 = 4$   
 $2 \times 3 = 6$   
 $2 \times 4 = 8$   
 $2 \times 5 = 10$   
 $2 \times 6 = 12$   
 $2 \times 7 = 14$   
 $2 \times 8 = 16$   
 $2 \times 9 = 18$   
 $2 \times 10 = 20$

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