**Lab Assignment-2**

**Introduction to JavaScript**

Use following links to start your JavaScipt code:

* <https://www.oreilly.com/library/view/javascript-jquery/9781491948583/ch01.html>
* In HTML, JavaScript code is inserted between <script> and </script> tags.

https://www.w3schools.com/js/js\_whereto.asp

**Java Script Fun exercise (Use images uploaded on GCR)**

<!DOCTYPE html>

<html>

<body>

<h2>What Can JavaScript Do?</h2>

<p>JavaScript can change HTML attribute values.</p>

<p>In this case JavaScript changes the value of the src (source) attribute of an image.</p>

<button onclick="document.getElementById('myImage').src='pic\_bulbon.gif'">Turn on the light</button>

<img id="myImage" src="pic\_bulboff.gif" style="width:100px">

<button onclick="document.getElementById('myImage').src='pic\_bulboff.gif'">Turn off the light</button>

</body>

</html>

**Java Script Practice exercise 1**

<!DOCTYPE html>  
<html>  
<body>  
<h1>My First Web Page</h1>  
<p>My First Paragraph</p>  
<p id="demo"></p>  
<script>  
document.getElementById("demo").innerHTML = 5 + 6;  
</script>  
</body>  
</html>

**Java Script Practice exercise 2**

<!DOCTYPE html>  
<html>  
<body>  
<h1>My First Web Page</h1>  
<p>My first paragraph.</p>  
<script>  
document.write(5 + 6);  
</script>  
</body>  
</html>

**Java Script Practice exercise 3**

<!DOCTYPE html>  
<html>  
<body>  
<h1>My First Web Page</h1>  
<p>My first paragraph.</p>  
<script>  
alert(5 + 6);  
</script>  
</body>  
</html>

**Java Script Practice exercise 4**

<!DOCTYPE html>

<html>

<body>

<h2>JavaScript Variables</h2>

<p>Strings are written with quotes.</p>

<p>Numbers are written without quotes.</p>

<p id="demo"></p>

<script>

var pi = 3.14;

var person = "John Doe";

var answer = 'Yes I am!';

document.getElementById("demo").innerHTML =

pi + "<br>" + person + "<br>" + answer;

</script>

</body>

</html>

Visit : https://www.w3schools.com/js/js\_variables.asp

**Java Script Practice exercise 5**

<!DOCTYPE html>

<html>

<body>

<h2>JavaScript Functions</h2>

<p>This example calls a function to convert from Fahrenheit to Celsius:</p>

<p id="demo"></p>

<script>

function toCelsius(f) {

return (5/9) \* (f-32);

}

document.getElementById("demo").innerHTML = toCelsius(77);

</script>

</body>

</html>

Visit : <https://www.w3schools.com/js/js_functions.asp>

**Java Script Practice exercise 6**

<!DOCTYPE html>

<html>

<body>

<h2>JavaScript String Methods</h2>

<p>Use of string based methods </p>

<p id="demo"></p>

<script>

let str = "Apple, Banana, Kiwi";

document.getElementById("demo").innerHTML = str.slice(7,13)+ "<br>" +str.length + "<br>" +str.slice(-12, -6)+ "<br>" +str.substr(-4)+ "<br>" + str.toUpperCase()+ "<br>" + str.trim();

</script>

</body>

</html>

Visit : <https://www.w3schools.com/js/js_string_methods.asp>

**Java Script Practice exercise 7**

Read and execute array based example given in tutorial link

<https://www.w3schools.com/js/js_arrays.asp>

<https://www.w3schools.com/js/js_array_methods.asp>

<https://www.w3schools.com/js/js_array_iteration.asp>

**Assignment (To be submitted)**

1. Use JavaScript to calculate the sum of first 10 natural numbers.
2. Define a function max() that takes two numbers as arguments and returns the largest of them. Use the if-then-else construct available in JavaScript.
3. Write a function translate() that will translate a text into "rövarspråket". That is, double every consonant and place an occurrence of "o" in between. For example, translate("this is fun") should return the string "tothohisos isos fofunon".
4. Starbucks, Inc. has hired you to create an application that will help their customers pre-order coffee for one week. In this test environment, Starbucks has elected to use a selected set of coffees for this application. The program will offer the customer their choice of a Cappuccino, or a Frappuccino, or a Latte'. All coffee comes in three sizes, "Tall", "Grande", or "Venti". The program will ask the customer to select a type of coffee and a size, and then save both. Once the customer has set their coffee selection for each day of the week, the program will display their selections by day of the week.

Here is a sample of the program:

 

