15B17CI372 Database and Web Lab

ODD 2024

Lab Assignment-2[CO2]

<u>Introduction to JavaScript</u>

Java Script Practice exercise 1

```html
<!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

```html
<!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

```html
<!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>
```

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. Write a Java script code to check two numbers and return true if one of the number is 100 or if the sum of the two numbers is 100

5. Write a Javascript program to replace every character in a given string with the character following it in the alphabet

6. Given two values, write a Javascript to find which one is nearest to 100

7. Write a a Javascript program to find the number of even digits in a array of integers

8. Write a javascript function to convert an amount to coins.
   Example input : 46 and possible coins 25,10,5,2,1
   Output: 25,10,10,1

9. Define a function named `stutter` that takes an array parameter and returns the array obtained by replacing every value in the list with two of that value. For example, the call of `stutter([1, 2, 3])` should return `[1, 1, 2, 2, 3, 3]`.

10. Define a function named `cycle` that takes array and an integer *n* and rearranges its elements by movingthe first *n* values to the end of the array. For example, `cycle(4, [1, 2, 3, 4, 5, 6])` should change the array to store `[5, 6, 1, 2, 3, 4]`. If *n* is negative or 0, do not modify the array.

11. Create an html page with two text input boxes and four buttons. The buttons should be labeled +, -, *, and /. When one of these buttons is pressed you should get the *value* from both text input boxes and add, subtract, multiply, or divide the numbers entered in the text input boxes. The result should be displayed below the buttons