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Course Name: Internet and Web Programming

Course Code: CSE3002

Date: 22/08/2022

Lab 4- Basic JS exercises

1. Write a JavaScript program to calculate multiplication and division of two numbers. Get inputs from user.

1st number -----

2nd number -----

Multiply Divide

2. Write a JavaScript program that accept two integers and display the larger
3. Write a JavaScript conditional statement to find the sign of product of three numbers. Display an alert box with the specified sign. Sample numbers : 3, -7, 2
4. Write a JavaScript function to check whether an 'input' is an array or not.
5. Write a simple JavaScript program to join all elements of the following array into a string.
6. Write a JavaScript program to sort the items of an array.
7. Write a JavaScript for loop that will iterate from 0 to 15. For each iteration, it will check if the current number is odd or even, and display a message to the screen.
8. Write a JavaScript conditional statement to find the largest of five numbers. Display an alert box to show the result.
9. Write a JS code to print numbers from 1 to 10
10. Write a JS code to print Even numbers in given array

Aim – To understand JS by this assignment

Procedure – Analyse the question thoughtfully and then start coding JS.

CODE:

HTML FILE:

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8" />
<meta http-equiv="X-UA-Compatible" content="IE=edge" />
<meta name="viewport" content="width=device-width, initial-scale=1.0" />
<title>20BCE1798_LAB4</title>
<script type="text/javascript" src="lab4_script.js"></script>
</head>
<h2>Question 1</h2>
<br/>
<form>
1st Number : <input type="text" id="firstNumber" /><br/>
<br/>
```

```
2nd Number: <input type="text" id="secondNumber" /><br/>
<br/>
<input type="button" onClick="multiplyBy()" Value="Multiply" />
<input type="button" onClick="divideBy()" Value="Divide" />
</form>
<p>The Result is : <br>
<span id = "result"></span>
</p>
<h2>Question 2</h2>

<input type="number" placeholder="Number One" id="Num1"><br><br>
<input type="number" placeholder="Number Two" id="Num2"><br><br>
<button type="submit" onclick="larger()">Larger Number</button>
<br><br>
<span id="resQ2"></span>

<h2>Question 3</h2>
1st Number: <input type="number" id="num1"><br><br> 2nd Number: <input
type="number" id="num2"><br><br> 3rd Number: <input type="number"
id="num3"><br><br>
<button type="submit" onclick="sign()">Display sign of the product</button>

<h2>Question 4</h2>
<button type="submit" onclick="arr()">Is it an array?</button>
<br><br>
<span id="resQ4"></span>
<br><br>
<span id="resq4"></span>

<h2>Question 5</h2>
<button type="submit" onclick="str()">Array to string</button>
<br><br>
<span id="result5"></span>

<h2>Question 6</h2>
<button type="submit" onclick="sort()">Sort items of array</button>
<br><br>
<span id="res6"></span>
<br><br>
<span id="result6"></span>

<h2>Question 7</h2>
<button type="submit" onclick="loop()">Odd or even?</button>
<br><br>
<span id="result7"></span>

<h2>Question 8</h2>
<!-- <form>
```

```

1st Number : <input type="text" id="firstNumber" /><br/>
<br/>
2nd Number: <input type="text" id="secondNumber" /><br/>
<br/>
3rd Number: <input type="text" id="thirdNumber" /><br/>
<br/>
4th Number: <input type="text" id="fourthNumber" /><br/>
<br/>
5th Number: <input type="text" id="fifthNumber" /><br/>
<br/>
</form>
<button type="submit" onclick="largest()">Largest of 5</button>
<br><br>
<p>The Result is : <br>
<span id = "result8"></span>
</p> -->

<button type="submit" onclick="largest()">Largest of 5 numbers</button>
<br><br>
<span id="result8"></span>

```

```

<h2>Question 9</h2>
<button type="submit" onclick="ten()">Print numbers from 1 to 10</button>
<br><br>
<span id="result9"></span>

<h2>Question 10</h2>
<button type="submit" onclick="even()">Print even numbers in
[1,2,3,4,5,6]</button>
<br><br>

```

JS FILE:

```

function multiplyBy() {
    number1 = document.getElementById("firstNumber").value; number2 =
document.getElementById("secondNumber").value;
    document.getElementById("result").innerHTML = number1 * number2;
}
function divideBy() {
    number1 = document.getElementById("firstNumber").value; number2 =
document.getElementById("secondNumber").value;
    document.getElementById("result").innerHTML = number1 / number2;
}

```

```

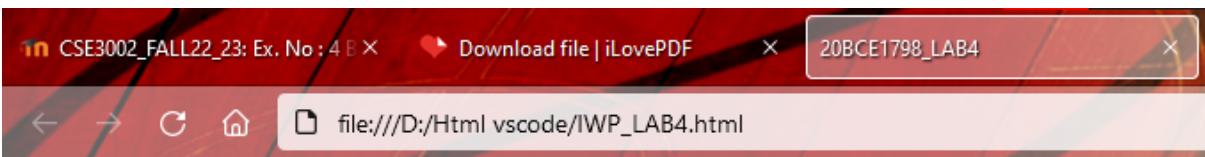
function larger(){ num1=document.getElementById("Num1").value;
num2=document.getElementById("Num2").value; if(num1>num2)
    document.getElementById("resQ2").innerHTML="Larger is "+num1; else
    document.getElementById("resQ2").innerHTML="Larger is "+num2;
}
function sign() {
    num1 = document.getElementById("num1").value; num2 =
document.getElementById("num2").value; num3 =
document.getElementById("num3").value; val = num1 * num2 * num3;
    if (val < 0) alert("Negative"); else alert("Positive");
}
/*function arr() {
    var is_array = function(input) {
        if (toString.call(input) === "[object Array]")
            return true;
        return false;
    };
    document.getElementById("resQ4").innerHTML="Array input: w3resources
<br>"+(is_array('w3resource'));
    document.getElementById("resq4").innerHTML="Array input: [1, 2, 4, 0]
<br>"+(is_array([1, 2, 4, 0]));
}*/
function str(){
fruit = ["apple", "orange", "banana", "watermelon"];
document.getElementById("result5").innerHTML=(fruit.toString());
document.getElementById("result5").innerHTML=(fruit.join());
document.getElementById("result5").innerHTML=(fruit.join(' '));
}
function sort(){
    var arr = [2, 5, 8, 1, 4];
document.getElementById("res6").innerHTML=(arr);
document.getElementById("result6").innerHTML=(arr.sort());
}
function loop(){ var i=0; for(i=0;i<16;i++){
    if(i%2==0){
        document.getElementById("result7").innerHTML+=i+" is even.<br>";
    }
    else{
        document.getElementById("result7").innerHTML+=i+" is odd.<br>";
    }
}
}

function largest(){
var arr = [2, 5, 8, 1, 4]; var i=0;
var max=0; for(i=0;i<5;i++){ if(arr[i]>max) max=arr[i];
}
}

```

```
document.getElementById("result8").innerHTML=(arr); alert("Largest number  
is "+max);  
}  
  
function ten(){ for(i=1;i<=10;i++){  
document.getElementById("result9").innerHTML+=i+" ";  
}  
}  
function even(){  
var arr = [1,2,3,4,5,6];  
var i=0; for(i=0;i<6;i++){  
if(arr[i]%2==0){  
document.getElementById("result10").innerHTML+=arr[i]+" ";  
}  
}  
}
```

OUTPUT:



Question 1

1st Number :

2nd Number:

The Result is :

780

Question 2

Larger is 67

Question 3

1st Number:

2nd Number:

3rd Number:



Question 5

Array to string

appleorangebananawatermelon

Question 6

Sort items of array

2,5,8,1,4

1,2,4,5,8

Question 7

Odd or even?

0 is even.

1 is odd.

2 is even.

3 is odd.

4 is even.

5 is odd.

6 is even.

7 is odd.

8 is even.

9 is odd.

10 is even.

11 is odd.

12 is even.

13 is odd.

14 is even.

0 is even.
1 is odd.
2 is even.
3 is odd.
4 is even.
5 is odd.
6 is even.
7 is odd.
8 is even.
9 is odd.
10 is even.
11 is odd.
12 is even.
13 is odd.
14 is even.
15 is odd.

Question 8

Largest of 5 numbers

2,5,8,1,4

Question 9

Print numbers from 1 to 10

1 2 3 4 5 6 7 8 9 10

Question 10

Print even numbers in [1,2,3,4,5,6]

RESULT – THUS WE SUCCESSFULLY UNDERSTOOD THE BASICS OF JS.