*Laboratory Report*

**INTERNET TECHNOLOGIES LAB.**

**CAP5004L**

**School of Engineering**

**Department of Computer Science and Engineering**

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| **Submitted By** | |
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| **Department** | Computer Science and Engineering |
| **Session/Semester** | 2020-21/ Odd Semester |
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| Sl No | Date | Aim of the Experiment | Signature/date |
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| **Experiment No-5.1** |  | **Date:** |

**Aim of the Experiment:**

Write a program in javascript to accept two equal sized string arrays from the user and concatenate their corresponding elements. Also, display their length.

**Source Code - index.html**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>JS Experiments</title>

</head>

<body>

<div>

x: <p id="x" style="display: inline-block;"></p> <br>

y: <p id="y" style="display: inline-block;"></p> <br>

sum: <p id="sum" style="display: inline-block;"></p>

</div>

<script>

var x = [],

y = [],

length = prompt("Length of arrays: "),

sum = [],

x\_val = '',

y\_val = '',

sum\_val = '';

for (var i = 0; i < length; i++){

x.push(parseInt(prompt("Value of x" + (i + 1))));

x\_val += x[i] + ' ';

y.push(parseInt(prompt("Value of y" + (i+1))));

y\_val += y[i] + ' ';

sum.push(x[i] + y[i]);

sum\_val += sum[i] + ' ';

}

document.getElementById('x').innerText = x\_val;

document.getElementById('y').innerText = y\_val;

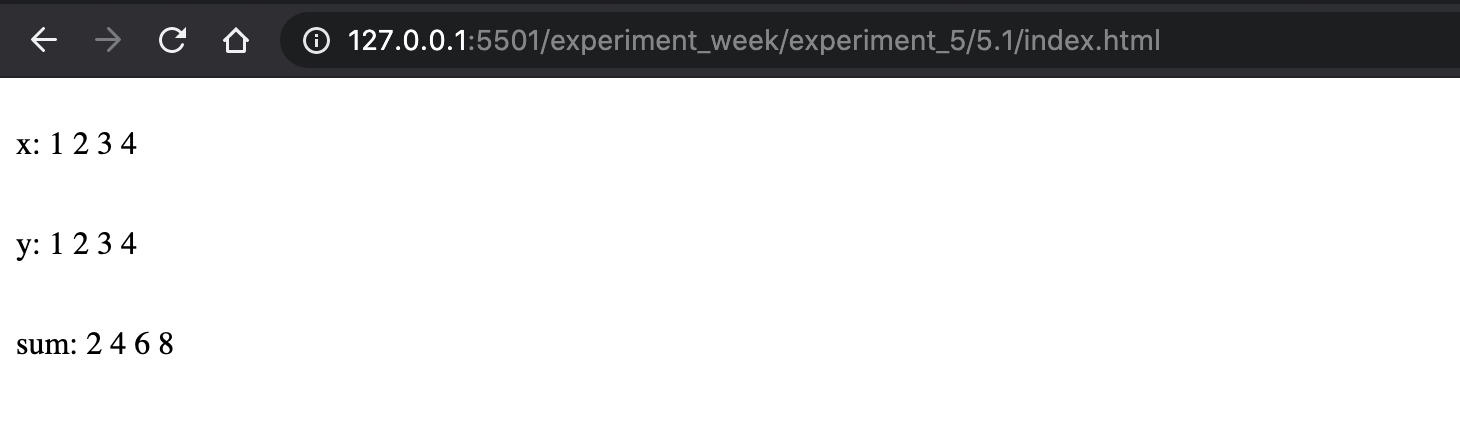
document.getElementById('sum').innerText = sum\_val;

</script>

</body>

</html>

**Output**



|  |  |  |
| --- | --- | --- |
| **Experiment No-5.2** |  | **Date:** |

**Aim of the Experiment:**

Write a program in javascript to create a mixed array and display all its elements.

**Source Code**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>JS Experiments</title>

</head>

<body>

<div>

x: <p id="x" style="display: inline-block;"></p>

</div>

<script>

var x = [1, 2.2, "Amit"];

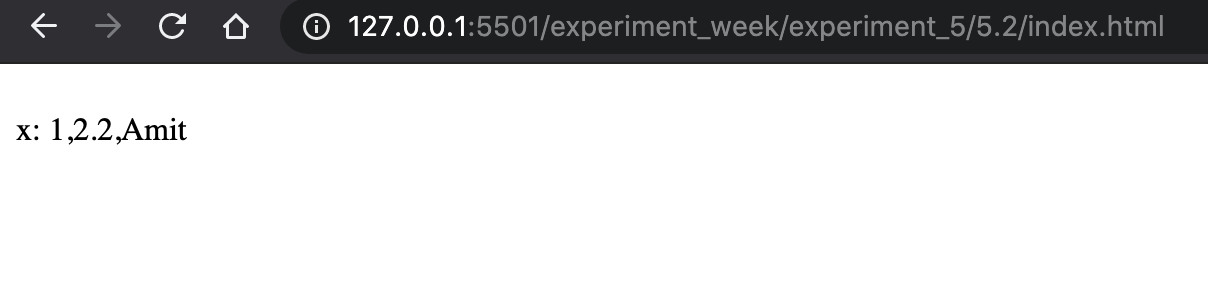
document.getElementById('x').innerText = x;

</script>

</body>

</html>

**Output**



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| --- | --- | --- |
| **Experiment No-5.3** |  | **Date:** |

**Aim of the Experiment:**

Write a program in Javascript to accept 5 element array from the user and sort it.

**Source Code - index.html**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>JS Experiments</title>

</head>

<body>

<div>

x: <p id="x" style="display: inline-block;"></p>

</div>

<script>

var x = [];

for (var i = 0; i < 5; i++) {

x.push(prompt("Value of x" + (i+1)));

}

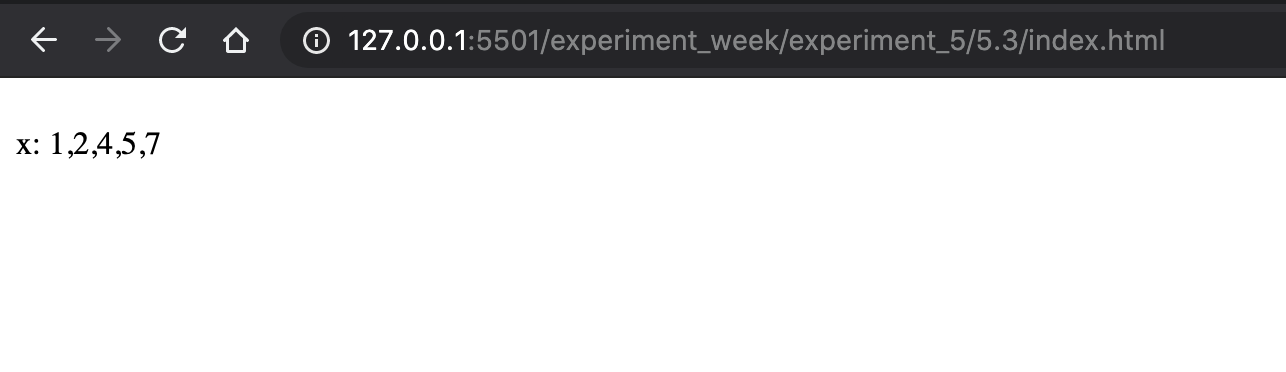
document.getElementById('x').innerText = x.sort();

</script>

</body>

</html>

**Output**



|  |  |  |
| --- | --- | --- |
| **Experiment No-5.4** |  | **Date:** |

**Aim of the Experiment:**

Create an array of 10 elements and show: Push, Pop, Shift, Unshift, Change the element, sort, splice, slice, toString, concatenate with values.

**Source Code**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>JS Experiments</title>

</head>

<body>

<div>

x\_push: <p id="x\_push" style="display: inline-block;"></p> <br>

x\_pop: <p id="x\_pop" style="display: inline-block;"></p> <br>

x\_shift: <p id="x\_shift" style="display: inline-block;"></p> <br>

x\_unshift: <p id="x\_unshift" style="display: inline-block;"></p> <br>

x\_change: <p id="x\_change" style="display: inline-block;"></p> <br>

x\_sort: <p id="x\_sort" style="display: inline-block;"></p> <br>

x\_splice: <p id="x\_splice" style="display: inline-block;"></p> <br>

x\_slice: <p id="x\_slice" style="display: inline-block;"></p> <br>

x\_toString: <p id="x\_toString" style="display: inline-block;"></p> <br>

x\_concat: <p id="x\_concat" style="display: inline-block;"></p> <br>

</div>

<script>

var x = [10,2,3,4,5,60,7,8,9,10];

// PUSH

x.push(11);

document.getElementById('x\_push').innerText = x;

// POP

x.pop();

document.getElementById('x\_pop').innerText = x;

// SHIFT

x.shift();

document.getElementById('x\_shift').innerText = x;

// UNSHIFT

x.unshift();

document.getElementById('x\_unshift').innerText = x;

// SORT

document.getElementById('x\_sort').innerText = x.sort(function(a, b){return a - b});

// CHANGE ELEMENT

x[0] = (12);

document.getElementById('x\_change').innerText = x;

// SPLICE

x.splice(1, 0, 13);

document.getElementById('x\_splice').innerText = x;

// SLICE;

document.getElementById('x\_slice').innerText = x.slice(2);

// toString;

document.getElementById('x\_toString').innerText = x.toString();

// CONCATINATION;

document.getElementById('x\_concat').innerText = x.concat([12,13,14]);

</script>

</body>

</html>

**Output**