













<!DOCTYPE html>

<html lang="en" xmlns="http://www.w3.org/1999/xhtml">

<head>

<meta charset="utf-8" />

<title>JS01</title>

<style type="text/css">

body {

margin: 30px;

}

</style>

</head>

<body>

<!-- Display Current Day & Time -->

<h3>1. Display Current Day & Time</h3>

<p>Today is :

<span id="pid"></span>.</p>

<p>Current time is :

<span id="hrs"></span> :

<span id="min"></span> :

<span id="sec"></span>

</p>

<!-- Print the Content -->

<br>

<h3>2. Print the content</h3>

<br />

<button id="printButton" onclick="printPage">print</button>

<!-- Display Current Date -->

<br>

<h3>3. Display Current Date</h3>

<br /> Current Date :

<span id="id1"></span>,

<span id="id2"></span>

<!-- Random Number -->

<br>

<h3>4. Random Number</h3>

Enter a number :

<input type="text" id="inp" />

<button id="btnCompare" onclick="compareRandom">Submit</button>

<span id="displayRandomResult"></span>

<!-- Calculation -->

<br>

<h3>5. Calculator</h3>

1st Number :

<input type="text" id="inp1" />

<br/> 2nd Number :

<input type="text" id="inp2" />

<br />

<button id="mulbtn" onclick="multiply">Multiply</button>

<button id="divbtn" onclick="divide">Divide</button>

<br /> The Result is :

<br />

<span id="displayCalculatorResult"></span>

<!-- UpperCase -->

<br>

<h3>7. Uppercase</h3>

Enter the text :

<input type="text" id="txt" />

<br />

<br />

<button id="uprcase" onclick="Uppercase">

Submit

</button>

<br />

<span id="result"></span>

<!-- Compare -->

<br>

<h3>8. Compare</h3>

Enter the text :

<input type="text" id="txtCompare" />

<br />

<br />

<button id="strCpr" onclick="compareString">

Submit

</button>

<br />

<span id="Compareresult"></span>

<!-- Copy -->

<br>

<h3>9. Copy</h3>

Enter the text :

<input type="text" id="txtCopy" />

<br />

<br />

<button id="strCpy" onclick="newstring">

Submit

</button>

<br />

<span id="copyresult"></span>

<!-- swap -->

<br>

<h3>10. Swap</h3>

<b>View Console for output </b>

<!-- Reverse -->

<br>

<h3>11. Reverse</h3>

<b>View Console for output </b>

<!-- Alphabetical Order -->

<br>

<h3>12. Alphabetical Order</h3>

<b>View Console for output </b>

<!-- Longest word, Unique Characters and Number of Occurences -->

<br>

<h3>13. Longest word, Unique Characters and Number of Occurences</h3>

<b>View Console for output </b>

<!-- string id of random characters -->

<br>

<h3>14. string id of random characters</h3>

<b>View Console for output </b>

<!-- Longest Substring without repeating characters -->

<br>

<h3>15. Longest Substring without repeating characters</h3>

<b>View Console for output </b>

<!-- Get Form Value -->

<br>

<h3>16. Get Form Value</h3>

<form id="form1" onsubmit="getFormvalue()">

First name:

<input type="text" name="fname" value="">

<br> Last name:

<input type="text" name="lname" value="">

<br>

<input type="submit" value="Submit">

</form>

<!-- Value of href, hreflang, rel, target and type -->

<br>

<h3>17. Value of href, hreflang, rel, target and type</h3>

<p>

<a id="w3r" type="text/html" hreflang="en-us" rel="nofollow" target="\_self" href="https://www.cognizant.com/"></a>

</p>

<button onclick="getAttributes()">Click here to get the attribute's value</button>

<!-- Value of href, hreflang, rel, target and type -->

<br>

<h3>18. Insert New Row</h3>

<table id="sampleTable" border="1">

<tr>

<td>Row1 cell1</td>

<td>Row1 cell2</td>

</tr>

<tr>

<td>Row2 cell1</td>

<td>Row2 cell2</td>

</tr>

</table>

<br>

<input type="button" onclick="insert\_Row()" value="Insert row">

<!-- Change Content -->

<br>

<h3>19. Change content</h3>

<table id="myTable" border="1">

<tr>

<td>Row1 cell1</td>

<td>Row1 cell2</td>

</tr>

<tr>

<td>Row2 cell1</td>

<td>Row2 cell2</td>

</tr>

<tr>

<td>Row3 cell1</td>

<td>Row3 cell2</td>

</tr>

</table>

<form></form>

<input type="button" onclick="changeContent()" value="Change content">

</form>

<!-- Remove Items from dropdown list -->

<br>

<h3>20. Remove Items from dropdown list</h3>

<form>

<select id="colorSelect">

<option>Red</option>

<option>Green</option>

<option>White</option>

<option>Black</option>

</select>

<input type="button" onclick="removecolor()" value="Select and Remove">

</form>

<!-- URL -->

<br>

<h3>6. URL</h3>

<script>

// Display Current Day & Time

var d = new Date();

var days = ["Sunday", "Monday", "Tuesday", "Wednesday", "Thursday", "Friday", "Saturday"];

document.getElementById("pid").innerHTML = days[d.getDay()];

document.getElementById("hrs").innerHTML = d.toLocaleString('en-US', { hour: 'numeric', hour12: true });

document.getElementById("min").innerHTML = d.getMinutes();

document.getElementById("sec").innerHTML = d.getSeconds();

var printer = document.getElementById("printButton");

//Print page content

function printPage() {

window.print();

}

printer.addEventListener("click", printPage);

//display Current daatetime

var d = new Date();

var format1 = (d.getMonth() + 1) + '/' + d.getDate() + '/' + d.getFullYear();

var format2 = (d.getMonth() + 1) + '-' + d.getDate() + '-' + d.getFullYear();

document.getElementById("id1").innerHTML = format1;

document.getElementById("id2").innerHTML = format2;

//random number

var btn = document.getElementById("btnCompare");

function getRadNo(max) {

return Math.floor(Math.random() \* Math.floor(max));

}

function compareRandom() {

var rdn = getRadNo(10);

var inp = document.getElementById("inp").value;

if (parseInt(rdn) === parseInt(inp))

document.getElementById("displayRandomResult").innerHTML = "Good Work";

else

document.getElementById("displayRandomResult").innerHTML = "Not matched";

}

btn.addEventListener("click", compareRandom);

//calculator

var input1;

var input2;

var btn1 = document.getElementById("mulbtn");

var btn2 = document.getElementById("divbtn");

function multiply() {

input1 = document.getElementById("inp1").value;

input2 = document.getElementById("inp2").value;

document.getElementById("displayCalculatorResult").innerHTML = input1 \* input2;;

}

function divide() {

input1 = document.getElementById("inp1").value;

input2 = document.getElementById("inp2").value;

document.getElementById("displayCalculatorResult").innerHTML = input1 / input2;

}

btn1.addEventListener("click", multiply);

btn2.addEventListener("click", divide);

//URL

document.write(document.URL);

//Uppercase

var btn1 = document.getElementById("uprcase");

function Uppercase() {

var input = document.getElementById("txt").value;

input = input.split(" ");

for (var i = 0, x = input.length; i < x; i++) {

input[i] = input[i][0].toUpperCase() + input[i].substr(1);

}

var strop = input.join(" ")

document.getElementById("result").innerHTML = strop;

}

btn1.addEventListener("click", Uppercase);

//compa re

var btn1 = document.getElementById("strCpr");

function compareString() {

var input = document.getElementById("txtCompare").value;

var ps = input.replace(/[^p]/g, "");

var ss = input.replace(/[^s]/g, "");

var p\_num = ps.length;

var s\_num = ss.length;

if (p\_num === s\_num)

document.getElementById("Compareresult").innerHTML = "true";

else

document.getElementById("Compareresult").innerHTML = "false";

}

btn1.addEventListener("click", compareString);

//Copy

var btn1 = document.getElementById("strCpy");

function newstring(str) {

var str = document.getElementById("txtCopy").value;

if (str.length >= 3) {

result\_str = str.substring(str.length - 3);

document.getElementById("copyresult").innerHTML = result\_str + result\_str + result\_str + result\_str;

}

else

document.getElementById("copyresult").innerHTML = "false";

}

btn1.addEventListener("click", newstring)

//swap

function swap(arra) {

[arra[0], arra[arra.length - 1]] = [arra[arra.length - 1], arra[0]];

return arra;

}

console.log("Swap");

console.log(swap([1, 2, 3, 4]));

console.log(swap([0, 2, 1]));

console.log(swap([3]));

//reverse

function string\_reverse(str) {

return str.split("").reverse().join("");

}

console.log("Reverse");

console.log(string\_reverse("12345"));

console.log(string\_reverse("658"));

console.log(string\_reverse("75214"));

//alphabetical order

function alphabet\_Soup(str) {

return str.split("").sort().join("");

}

console.log("Alphabetical Order");

console.log(alphabet\_Soup("assignment"));

console.log(alphabet\_Soup("test"));

//Longest word, Unique Characters and Number of Occurences

function findLongestWord(str) {

const stringArray = str.split(" ");

const longestWord = stringArray.reduce((a, b) => {

if (b.length > a.length) {

return b;

} else {

return a;

}

});

return longestWord;

}

function unique\_char(str1) {

var str = str1;

var uniql = "";

for (var x = 0; x < str.length; x++) {

if (uniql.indexOf(str.charAt(x)) == -1) {

uniql += str[x];

}

}

return uniql;

}

function Char\_Counts(str1) {

var uchars = {};

str1.replace(/\S/g, function (l) { uchars[l] = (isNaN(uchars[l]) ? 1 : uchars[l] + 1); });

return uchars;

}

console.log("Character Counts");

console.log(Char\_Counts("The quick brown fox jumps over the lazy dog"));

console.log("Unique Characters");

console.log(unique\_char("thequickbrownfoxjumpsoverthelazydog"));

console.log("Longest Word");

console.log(findLongestWord("The longest word in a sentence"));

//string id of random characters

function makeid(l) {

var text = "";

var char\_list = "ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789";

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

text += char\_list.charAt(Math.floor(Math.random() \* char\_list.length));

}

return text;

}

console.log("string id of random characters");

console.log(makeid(5));

//Longest subString

function longest\_substring\_without\_repeating\_characters(input) {

var chars = input.split('');

var curr\_char;

var str = "";

var longest\_string = "";

var hash = {};

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

curr\_char = chars[i];

if (!hash[chars[i]]) {

str += curr\_char;

hash[chars[i]] = { index: i };

}

else {

if (longest\_string.length <= str.length) {

longest\_string = str;

}

var prev\_dupeIndex = hash[curr\_char].index;

var str\_FromPrevDupe = input.substring(prev\_dupeIndex + 1, i);

str = str\_FromPrevDupe + curr\_char;

hash = {};

for (var j = prev\_dupeIndex + 1; j <= i; j++) {

hash[input.charAt(j)] = { index: j };

}

}

}

return longest\_string.length > str.length ? longest\_string : str;

}

console.log("Longest Substring without repeating characters");

console.log(longest\_substring\_without\_repeating\_characters("google.com"));

console.log(longest\_substring\_without\_repeating\_characters("example.com"));

//get form value

function getFormvalue() {

var x = document.getElementById("form1");

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

if (x.elements[i].value != 'Submit') {

console.log(x.elements[i].value);

}

}

}

//Value of href, hreflang, rel, target and type

function getAttributes() {

var u = document.getElementById("w3r").href;

alert('The value of the href attribute of the link is : ' + u);

var v = document.getElementById("w3r").hreflang;

alert('The value of the hreflang attribute of the link is : ' + v);

var w = document.getElementById("w3r").rel;

alert('The value of the rel attribute of the link is : ' + w);

var x = document.getElementById("w3r").target;

alert('The value of the taget attribute of the link is : ' + x);

var y = document.getElementById("w3r").type;

alert('The value of the type attribute of the link is : ' + y);

}

//Insert new row

function insert\_Row() {

var x = document.getElementById('sampleTable').insertRow(0);

var y = x.insertCell(0);

var z = x.insertCell(1);

y.innerHTML = "New Cell1";

z.innerHTML = "New Cell2";

}

//Change Content

function changeContent() {

rn = window.prompt("Input the Row number(0,1,2)", "0");

cn = window.prompt("Input the Column number(0,1)", "0");

content = window.prompt("Input the Cell content");

var x = document.getElementById('myTable').rows[parseInt(rn, 10)].cells;

x[parseInt(cn, 10)].innerHTML = content;

}

//Reove Items from dropdown list

function removecolor() {

var x = document.getElementById("colorSelect");

x.remove(x.selectedIndex);

}

</script>

</body>

</html>