1. Write a JavaScript program to display the current day and time in the following format.

Sample Output: Today is: Friday. Current time is: 4 PM : 50 : 22

1. Write a JavaScript program to print the contents of the current window.
2. Write a JavaScript program to get the current date.

Expected Output: mm-dd-yyyy, mm/dd/yyyy or dd-mm-yyyy, dd/mm/yyyy

1. Write a JavaScript program where the program takes a random integer between 1 to 10, the user is then prompted to input a guess number. If the user input matches with guess number, the program will display a message "Good Work" otherwise display a message "Not matched".
2. Write a JavaScript program to calculate multiplication and division of two numbers (input from user). Sample form:
3. Write a JavaScript program to get the website URL (loading page) & print on console
4. Write a JavaScript program to capitalize the first letter of each word of a given string.
5. Write a JavaScript program to check if a given string contains equal number of p's and s's present.

Sample output:

Input string: paatpss

Output: true

Input string: paatps

Output: false

1. Write a JavaScript program to create a new string of 4 copies of the last 3 characters of a given original string. The length of the given string must be 3 and above.

Sample input 1: "Python 3.0"

Output 1: 3.03.03.03.0

Input 2: "JS"

OUTPUT 2: false

Input 3: JavaScript

Output3: iptiptiptipt

1. Write a JavaScript program to swap the first and last elements of a given array of integers. The array length should be at least 1.
2. Write a JavaScript function that reverse a number. Using built in functions:

Example x = 32243;

Expected Output: 34223

1. Write a JavaScript function that returns a passed string with letters in alphabetical order. Using built in functions.

Example string: 'webmaster'

Expected Output: 'abeemrstw'

Assume punctuation and numbers symbols are not included in the string passed.

1. Write a JavaScript function that accepts a string as a parameter and find the longest word within the string. Using builtin functions.

Example string: 'Web Development Tutorial'

Expected Output: 'Development'

1. Write a JavaScript function to extract unique characters from a string

Example string: "thequickbrownfoxjumpsoverthelazydog"

Expected Output: "thequickbrownfxjmpsvlazydg"

1. Write a JavaScript function to get the number of occurrences of each letter in specified string

Sample input: The quick brown fox jumps over the lazy dog

Sample Output:

"T":1,"h":2,"e":3,"q":1,"u":2,"i":1,"c":1,"k":1,"b":1,"r":2,"o":4,"w":1,"n":1,"f":1,"x":1,"j":1,"m":1,"p":1,"s":1,"v":1,"t":1,"l":1,"a":1,"z":1,"y":1,"d":1,"g":1

1. Write a JavaScript function that generates a string id (specified length) of random characters

Sample character list: “ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789”

Length: 8

Output: XppJs2BC

1. Write a JavaScript function to find longest substring in a given a string without repeating characters.

Sample Input: google.com

Sample Output: gle.com

Sample input: example.com

Sample output: xample.co

1. Write a JavaScript function to get the values of First and Last name of the following form.

Sample HTML file:

<!DOCTYPE html>

<html><head>

<meta charset=utf

-

8 />

<title>Return first and last name

from a form

-

w3resource</title>

</head><body>

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

First name: <input type="text" name="fname" value="David"><br>

Last name: <input type="text" name="lname"

value="Beckham"><br>

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

<

/form>

</body>

</html>

1. Here is a sample html file with a submit button. Write a JavaScript function to get the value of the href, hreflang, rel, target, and type attributes of the specified link.

<!DOCTYPE html>

<html><head>

<meta charset=utf

-

8 />

</head>

<body>

<p><a id="w3r" type="text/html"

hreflang="en

-

us"

rel="nofollow" target="\_self"

href="https://www.w3resource.com/">w3resource</a></p>

<button onclick="getAttributes()">Click here to get

attributes value</button>

</body></html>

1. Write a JavaScript function that accept row, column, (to identify a particular cell) and a string to update the content of that cell. Sample HTML file

<!DOCTYPE html>

<html><head>

<meta charset=utf-8 />

<title>Change the content of a cell</title>

</head><body>

<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>

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

content">

</form></body></html>

1. Write a JavaScript program to remove items from a dropdown list. Sample HTML file

<!DOCTYPE html>

<html><head>

<meta charset=utf-8 />

<title>Remove items from a dropdown list</title>

</head><body><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></body></html>

**Output:**

****

**Code:**

**HTML + Javascript:**

<html>

<head>

<title>06\_JS\_Assignment\_1\_399584</title>

<script>

</script>

</head>

<body>

<h1>06\_JS\_Assignment\_1\_399584</h1>

<p>1. Write a JavaScript program to display the current day and time in the following format.

Sample Output: Today is: Friday. Current time is: 4 PM : 50 : 22</p>

<label id="lblDtTime">test</label>

</br>

</br>

<p>2. Write a JavaScript program to print the contents of the current window.</p>

<button id="prntBtn" onclick="printItemsonPg()">Print</button>

</br>

</br>

<p>3. Write a JavaScript program to get the current date. Expected Output: mm-dd-yyyy, mm/dd/yyyy or dd-mm-yyyy, dd/mm/yyyy</p></br>

Output:<label id="lbldatefmt"></label>

</br>

</br>

<p>4. Write a JavaScript program where the program takes a random integer between 1 to 10, the user is then prompted to input a guess number. If the user input matches with guess number, the program will display a message "Good Work" otherwise display a message "Not matched".</p>

<button id="rdmBtn" onclick="randVal()">Random No</button>

</br>

<p id='rdmP'>4 message here</p>

</br>

<p>5. Write a JavaScript program to calculate multiplication and division of two numbers (input from user). Sample form:</p>

<table>

<tr>

<td>1st Number:</td>

<td><input type="text" id="firstNum"></input></td>

</tr>

<tr>

<td>2nd Number:</td>

<td><input type="text" id="secNum"></input></td>

</tr>

</table>

</br>

</br>

<table>

<tr>

<td><button id="mulBtn" onclick="mul()">Multiply</button></td>

<td><button id="divBtn" onclick="divide()">Divide</button></td>

</tr>

</table>

</br>

<label id="muldivResult">5 Answer here</label>

</br>

</br>

<p>6. Write a JavaScript program to get the website URL (loading page) & print on console</p>

<label id="lblUrl">Enter input to check output</label>

</br>

</br>

<p>7. Write a JavaScript program to capitalize the first letter of each word of a given string</p>

Enter Text: <input id="txtUIp" onblur="capitalize()"></input>

</br>

<label id="lblCap">Enter input to check output</label>

</br>

</br>

<p>8. Write a JavaScript program to check if a given string contains equal number of p's and s's present. For eg. //paatpss is true & paatps is false</br>

</br>

&emsp;Input string: <input id="q8" type="text" onblur="checkcommons()" /></br>

&emsp;Output: <span id="q8a">Enter input to check output</span>

</br>

<p>9. Write a JavaScript program to create a new string of 4 copies of the last 3 characters of a given original string. The length of the given string must be 3 and above</br>

</br>

&emsp;Input string: <input id="q9" type="text" onblur="dup()" /></br>

&emsp;Output: <span id="q9a">Enter input to check output</span>

</br>

<p>10. Write a JavaScript program to swap the first and last elements of a given array of integers. The array length should be at least 1</br>

</br>

&emsp;Input string: <input id="q10" type="text" onblur="arrSwap()" /></br>

&emsp;Output: <span id="q10a">Enter input to check output</span>

</br>

<p>11. Write a JavaScript function that reverse a number. Using built in functions: Example x = 32243; Expected Output: 34223</br>

</br>

&emsp;Input string: <input id="q11" type="text" onblur="revFunc()" /></br>

&emsp;Output: <span id="q11a">Enter input to check output</span>

</br>

<p>12. Write a JavaScript function that returns a passed string with letters in alphabetical order. Using built in functions. Example string: 'webmaster' Expected Output: 'abeemrstw'</p>

&emsp;Input string: <input id="q12" type="text" onblur="sortFunc()" /></br>

&emsp;Output: <span id="q12a">Enter input to check output</span>

</br>

<p>13. Write a JavaScript function that accepts a string as a parameter and find the longest word within the string. Using builtin functions</p>

&emsp;Input string: <input id="q13" type="text" onblur="longWord()" /></br>

&emsp;Output: <span id="q13a">Enter input to check output</span>

</br>

<p>14. Write a JavaScript function to extract unique characters from a string. Example string: "thequickbrownfoxjumpsoverthelazydog" Expected Output: "thequickbrownfxjmpsvlazydg"</p>

&emsp;Input string: <input id="q14" type="text" onblur="unique()" /></br>

&emsp;Output: <span id="q14a">Enter input to check output</span>

</br>

<p>15. Write a JavaScript function to get the number of occurrences of each letter in specified string. Sample input:Balaji; Sample Output: "B":1, "a":2, "l":1, "j":1, "i":1 </p>

&emsp;Input string: <input id="q15" type="text" onblur="occurrences()" /></br>

&emsp;Output: <span id="q15a">Enter input to check output</span>

<p>16. Write a JavaScript function that generates a string id (specified length) of random characters</p>

&emsp;Input length: <input id="q16" type="text" onblur="randomChar()" /></br>

&emsp;Output: <span id="q16a">Check the random text here!!</span>

</br>

<p>17. Write a JavaScript function to find longest substring in a given a string without repeating characters.</p>

&emsp;Input length: <input id="q17" type="text" onblur="subUnrepeat()" /></br>

&emsp;Output: <span id="q17a">Check the longest substring text here!!</span>

</br>

</br>

<form id="q18" onsubmit="getFormvalue()">

<span>18. Write a JavaScript function to get the values of First and Last name of the following form. Sample HTML file</span></br>

&emsp;First name: <input type="text" name="fname" value="Balaji"></br>

&emsp;Last name: <input type="text" name="lname" value="Singh"></br>

&emsp;Output: <span id="q18a">Check the random form values here!!</span>

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

</form>

<span>19. Here is a sample html file with a submit button. Write a JavaScript function to get the value of the href, hreflang, rel, target, and type attributes of the specified link</span>

&emsp;&emsp;<p><a id="q19" type="text/html" hreflang="en-us" rel="nofollow" target="\_self" href="https://www.iiht.com/">IIHT</a></p>

&emsp;<button onclick="getAttributes()">Click here to get attributes value</button>

</br>

</br>

<span>20. Write a JavaScript function that accept row, column, (to identify a particular cell) and a string to update the content of that cell. Sample HTML file</span>

&emsp;<table id="myTableq20" 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>

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

</form>

</br>

<span>21. Write a JavaScript program to remove items from a dropdown list. Sample HTML file</span></br>

<select id="colorSelectQ21">

<option>Red</option>

<option>Green</option>

<option>White</option>

<option>Black</option>

</select></br>

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

<script type="text/javascript">

var today = new Date();

var hour = (today.getHours() < 12) ? today.getHours() : today.getHours() - 12;

var ampm = ((today.getHours() < 12) ? "AM" : "PM")

var weekday = new Array("Sunday", "Monday", "Tuesday", "Wednesday", "Thursday", "Friday", "Saturday")

console.log("Today is: " + weekday[today.getDay()] + ". " + hour + " " + ampm + " : " + today.getMinutes() + " : " + today.getSeconds());

document.getElementById('lblDtTime').innerHTML = "Today is: " + weekday[today.getDay()] + ". Current time is: " + hour + " " + ampm + " : " + today.getMinutes() + " : " + today.getSeconds();

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

function printItemsonPg(){

window.print();

}

printer.addEventListener("click", printItemsonPg);

var day = today.getDay();

var month = today.getMonth() + 1;

var year = today.getFullYear();

document.getElementById('lbldatefmt').innerHTML = month + "-" + day + "-" + year + ", " + month + "/" + day + "/" + year + " or " + day + "-" + month + "-" + year + ", " + day + "/" + month + "/" + year

function randVal() {

var min = 1;

var max = 10;

var userinput = prompt("Please enter a random number between 1 and 10")

var randomNo = Math.round(Math.random() \* (min - max) + min);

var restxt;

if (userinput === randomNo) {

restxt = "Good Work"

} else {

restxt = "Not Matched. Try Again!"

}

document.getElementById('rdmP').innerHTML = restxt;

}

function mul() {

var firstNumMul = document.getElementById('firstNum').value;

var secNumMul = document.getElementById('secNum').value;

document.getElementById('muldivResult').innerHTML = firstNumMul\*secNumMul;

}

function divide() {

var firstNumMul = document.getElementById('firstNum').value;

var secNumMul = document.getElementById('secNum').value;

document.getElementById('muldivResult').innerHTML = firstNumMul/secNumMul;

}

var url = window.location.href;

document.getElementById('lblUrl').innerHTML = url

console.log(url);

function capitalize(){

var strIp = document.getElementById('txtUIp').value;

var valres = strIp.charAt(0).toUpperCase() + strIp.slice(1).toLowerCase()

document.getElementById('lblCap').innerHTML = valres

}

function checkcommons(){

var str = document.getElementById("q8").value;

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

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

var noOfps = p.length;

var noOfss = s.length;

if(noOfps === noOfss){

document.getElementById("q8a").innerHTML = "true";

} else {

document.getElementById("q8a").innerHTML = "false";

}

}

function dup() {

var str = document.getElementById("q9").value;

if (str.length >= 3){

var lastThree = str.substring(str.length-3);

document.getElementById("q9a").innerHTML = lastThree.repeat(4);

} else {

document.getElementById("q9a").innerHTML = "false";

}

}

function arrSwap(){

var str = document.getElementById("q10").value;

var k;

k = str.split("");

var firstElement = k.shift();

var lastELement = k.pop();

k.push(firstElement);

k.unshift(lastELement);

str = k.join("");

document.getElementById("q10a").innerHTML = str;

}

function revFunc(){

var str = document.getElementById("q11").value;

var arrstr = str.split("");

var arrrev = arrstr.reverse();

document.getElementById("q11a").innerHTML = arrrev.join("");

}

function sortFunc(){

var str = document.getElementById("q12").value;

document.getElementById("q12a").innerHTML = str.split("").sort().join("");

}

function longWord(){

var str = document.getElementById("q13").value;

var arrOfWords = str.split(" ");

var result = arrOfWords[0];

for(var x = 1 ; x < arrOfWords.length ; x++)

{

if(result.length < arrOfWords[x].length)

{

result = arrOfWords[x];

}

}

document.getElementById("q13a").innerHTML = result;

}

function unique() {

var str = document.getElementById("q14").value;

var newString = ""

for (var i = 0; str.length > i; i++) {

if (!newString.includes(str.charAt(i))) {

newString += str.charAt(i);

}

}

document.getElementById("q14a").innerHTML = newString;

}

function occurrences(){

var str = document.getElementById("q15").value;

var substr = {};

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

document.getElementById("q15a").innerHTML = substr;

}

function randomChar(){

var len = document.getElementById("q16").value;

var text = "";

var char\_list = "ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789";

for(var i=0; i < len; i++ )

{

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

}

document.getElementById("q16a").innerHTML = text;

}

function subUnrepeat(){

var str = document.getElementById("q17").value;

document.getElementById("q17a").innerHTML = "";

}

function getFormvalue(){

var eleOnform = document.getElementById("q18");

var result = "";

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

{

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

{

result += eleOnform.elements[i].value;

}

}

alert(result);

document.getElementById("q18a").innerHTML = result;

}

function getAttributes(){

var anchorTag = document.getElementById("q19");

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

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

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

alert('The value of the taget attribute of the link is : '+anchorTag.target);

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

}

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('myTableq20').rows[parseInt(rn,10)].cells;

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

}

function removecolor(){

var x=document.getElementById("colorSelectQ21");

x.remove(x.selectedIndex);

}

</script>

</body>

</html>