**Javascript Questions**

1. Write a JavaScript program to find duplicate values in a

JavaScript array.

var newarray = [1,2,2,3,3,4,4,5,6,7,10];

var sortarray = newarray.sort();

var duparray = [];

for(var i=0;i<sortarray.length-1;i++){

if(sortarray[i+1] == sortarray[i]){

duparray.push(sortarray[i]);

}

}

console.log(duparray);

# **2. JavaScript to find Odd or Even number!**

<input type="text" id="inputBtn">

var inputVal = document.getElementsById("inputBtn").value;

if(inputVal%2 == 0){

console.log("Even number");

}

else{

console.log("Odd number");

}

**3. Write a javascript program to get the integers in range(2,9);**

**Example: range(2,9);**

**Output: [3,4,5,6,7,8];**

var range = function(start,end){

if(end-start === 2){

return [start +1];

}

else{

var list = range(start,end - 1);

list.push(end-1);

return list;

}

}

console.log(range(2,9));

4. Write a JavaScript program to find the most frequent item of an array.

Sample array : var arr1=[3, 'a', 'a', 'a', 2, 3, 'a', 3, 'a', 2, 4, 9, 3];  
Sample Output : a (5 times);

var arr1=[3, 'a', 'a', 'a', 2, 3, 'a', 3, 'a', 2, 4, 9, 3];

var mf = 1;

var m = 0;

var item;

for (var i=0; i<arr1.length; i++)

{

for (var j=i; j<arr1.length; j++)

{

if (arr1[i] == arr1[j])

m++;

if (mf<m)

{

mf=m;

item = arr1[i];

}

}

m=0;

}

console.log(item+" ( " +mf +" times ) ") ;

5. Input = [1,2,3,4,5,6];

Output = 21;

var addArray = [1,2,3,4,5,6];

var output = 0;

for(i=0;i<addArray.length;i+=1){

output += addArray[i];

}

console.log(output);

6. Write a javascript program to calculate the factorial of a number.  
Example: 5! = 5x4x3x2x1 = 120

function factorial(x){

if(x == 0){

return 1;

}

else{

return x \* factorial(x-1);

}

}

console.log(factorial(5));

1. Write a javascript program to compute the exponent of a number.

Example: 8^2 = 8x8 = 64

function exponent(x,y){

if(y == 0){

return 1;

}

else{

return x \* exponent(x,y-1);

}

}

console.log(exponent(8,2));

8. Write a javascript program that accept two integers and display the larger.

var x = prompt("1st interger value");

var y = prompt("2st interger value");

if(x>y){

alert(x);

}

else{

alert(y);

}

9. Write a javascript program to construct the following pattern, using a number.

\*  
\*\*  
\*\*\*  
\*\*\*\*  
\*\*\*\*\*

var i,j,chareater;

for(i=1;i<=6;i++){

for(j=1;j<i;j++){

chareater = chareater+('\*');

}

console.log(chareater);

chareater = '';

}

10. Write a simple javascript program to join all elements of the following.

Output

"Red,Green,White,Black"

"Red,Green,White,Black"

"Red+Green+White+Black"

var str = ["Red","Green","White","Black"];

console.log(str.toString());

console.log(str.join());

console.log(str.join('+'));

1. Write a program to validate a condition using ternary expression.

function ternary(student\_number){

return student\_number ? "2:00" : "4:00";

}

console.log(ternary(true));

console.log(ternary(false));

console.log(ternary(1));

**12. Write a javascript program to get even numbers on array.**

var array = [4,5,6,8,9,10,8,21,26,25];

var evenArray = [];

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

if(array[i]%2 == 0){

evenArray.push(array[i]);

}

}

console.log(evenArray);

1. **Write a javascript program to get textarea field only text not get the number.**

**var text = document.getElementById('textarea').value;**

**var text1 = /[0-9]/g;**

**var text2 = /[a-z]/g;**

**var number = text.match(text1);**

**var character = text.match(text2);**

**var a = number.join("");**

**var b = character.join("");**

**console.log(a,b);**

1. **Localstorage()**

if (typeof(Storage) !== "undefined") {

// Store

localStorage.setItem("lastname", "seenu");

// Retrieve

document.getElementById("result").innerHTML = localStorage.getItem("lastname");

} else {

document.getElementById("result").innerHTML = "Sorry, your browser does not support Web Storage...";

}

# JavaScript Hoisting

<p id="demo"></p>

x = 5;

elem = document.getElementById("demo");

elem.innerHTML = x;

var x;

## 16. Self-Invoking Functions

(function (){

alert(“Hai”);

})();

1. Callback Functions

//Javascript callback function

function mySandwich(param1, param2, callback) {

alert('Started eating my sandwich.\n\nIt has: ' + param1 + ', ' + param2);

callback();

}

mySandwich('ham', 'cheese', function() {

alert('Finished eating my sandwich.');

});

//Jquery callback function

$(‘#id’).fadeIn(‘slow’, function(){

//callback function

});

1. Chaining Functions

$("button").click(function(){

$("#p1").css("color", "red").slideUp(2000).slideDown(2000);

});

19. What will the code below output to the console and why?

(function(){

var a = b = 3;

})();

console.log("a defined? " + (typeof a !== 'undefined'));

console.log("b defined? " + (typeof b !== 'undefined'));

20. Consider the two functions below. Will they both return the same thing? Why or why not?

function foo1()

{

return {

bar: "hello"

};

}

function foo2()

{

return

{

bar: "hello"

};

}

console.log("foo1 returns:");

console.log(foo1());

console.log("foo2 returns:");

console.log(foo2());

output

foo1 returns:

Object {bar: "hello"}

foo2 returns:

undefined

21. What will the code below output to the console and why?

var arr1 = "john".split('');

var arr2 = arr1.reverse();

var arr3 = "jones".split('');

arr2.push(arr3);

console.log("array 1: length=" + arr1.length + " last=" + arr1.slice(-1));

console.log("array 2: length=" + arr2.length + " last=" + arr2.slice(-1));

Output

"array 1: length=5 last=j,o,n,e,s"

"array 2: length=5 last=j,o,n,e,s"

1. SetTimeout function

setTimeout(function(){ alert("Hello"); }, 3000);

23. SetInterval function

setInterval(function(){ alert("Hello"); }, 3000);

1. What will be the output of the following code:

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

setTimeout(function() { console.log(i); }, i \* 1000 );

}

1. What is javascript slice method.

<p id="demo"></p>

function myFunction() {

var str = "Hello world!";

var res = str.slice(1, 5);

document.getElementById("demo").innerHTML = res;

}

**Output**

Ello

1. What is javascript splice method.

var fruits = ["Banana", "Orange", "Apple", "Mango"];

document.getElementById("demo").innerHTML = fruits;

function myFunction() {

fruits.splice(2, 0, "Lemon", "Kiwi");

document.getElementById("demo").innerHTML = fruits;

}

**Output**

Banana,Orange,**Lemon,Kiwi**,Apple,Mango

1. **Text replacement in javascript**

var re = /(\w+)\s(\w+)/;

var str = 'John Smith';

var newstr = str.replace(re, '$2, $1');

console.log(newstr);

**Output**

Smith, John

1. **What is an attribute selector?**

input[type = "text"]{

color: #000000;

}

## **JavaScript Data Types**

In JavaScript there are 5 different data types that can contain values:

* string
* number
* boolean
* object
* function

There are 3 types of objects:

* Object
* Date
* Array

And 2 data types that cannot contain values:

* null
* undefined

# Explain javascript array and object

**Array**

JavaScript arrays are used to store multiple values in a single variable.

**Object**

In JavaScript, there are many ways to create objects. You can create an object using an object initializer or write a constructor function to define the object type and create an instance of the object with the new operator.

1. **Javascript methods types.**

**Example:**

var strVariable = "This is a string.";

document.write(strVariable.bold());

big()

blink()

bold()

fixed()

fontcolor(color)

fontsize(size)

italics()

link(href)

small()

strike()

sub()

sup()

## JavaScript Closures

var add = (function () {

var counter = 0;

return function () {return counter += 1;}

})();

add();

1. **Javascript Anonymous function definition:**

**var** anon = **function**() {
alert('I am anonymous');

}

anon();