# Question 1

Define an array of numbers (use any random numbers). Write a program in Javascript to print only the even numbers of the array. Do not use any library functions, need to do via for loops only.

Ans:

Define an array of numbers:

An array is an indexed collection of data elements of the same type.

<!DOCTYPE html>

<html>

<title>JavaScript .forEach() Method</title>

<body>

<p>

JavaScript forEach() method to get even numbers in an Array.

</p>

</body>

<script>

function getEvenNumbers(num) {

if (num % 2 === 0) {

document.writeln(num + "<br />");

}

}

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

arr.forEach(getEvenNumbers);

// Using ES6 features.

// let getEvenNumbers = (num) => {

// if (num % 2 === 0) {

// document.writeln(num + "<br />");

// }

// }

// const arr = [1, 2, 3, 4, 5, 6];

// arr.forEach(getEvenNumbers);

</script>

</html>

Question 2 Find the maximum consecutive 1's in an array of 0's and 1's.

Example:

a) 00110001001110 - Output :3 [Max num of consecutive 1's is 3]

b) 1000010001 - Output :1 [Max num of consecutive 1's is 1]

Ans:

a = [0,0,1,1,0,0,0,1,0,0,1,1,1,0]

b = [1,0,0,0,0,1,0,0,0,1]

#a = [0, 1, 1, 0, 1, 1,1]

c = 0;

max = 0;

for i in a:

#print i

if i == 1:

c += 1;

#print c

if max < c:

max = c

else:

if max < c:

max = c

c = 0

else:

c = 0

print max

Question 3

Suppose you have an array of 101 integers. This array is already sorted and all numbers in this array are consecutive. Each number only occurs once in the array except one number which occurs twice. Write a js code to find the repeated number.

e.g $arr = array(0,1,2,3,4,5,6,7,7,8,9,10...................);

Ans:

<script>

    function printRepeating(arr , size)

    {

        var i, j;

        document.write("Repeated Elements are :");

        for (i = 0; i < size; i++)

        {

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

            {

                if (arr[i] == arr[j])

                    document.write(arr[i] + " ");

            }

        }

    }

var arr = [4, 2, 4, 5, 2, 3, 1];

var arr\_size = arr.length;

printRepeating(arr, arr\_size);

// This code is contributed by aanchalsingh

</script>

# Question 4

Assume we have a form e.g

<form>

   <input type=”text” name=”firstname” />

   <input type=”check” name=”checkme” />

   <input type=”submit” value=”submit”

</form>

For the above form, write validation in javascript so that if the firstname is empty or if checkme is not checked, it will not allow the form to submit.

Ans:

<html>

<head>

<title>A Simple Form with JavaScript Validation</title>

<script type="text/javascript">

<!--

function validate\_form ( )

{

valid = true;

if ( document.contact\_form.contact\_name.value == "" )

{

alert ( "Please fill in the 'Your Name' box." );

valid = false;

}

return valid;

}

//-->

</script>

</head>

<body bgcolor="#FFFFFF">

<form name="contact\_form" method="post"

action="/cgi-bin/articles/development/javascript/form-validation-with-javascript/contact\_simple.cgi"

onSubmit="return validate\_form ( );">

<h1>Please Enter Your Name</h1>

<p>Your Name: <input type="text" name="contact\_name"></p>

<p><input type="submit" name="send" value="Send Details"></p>

</form>

</body>

</html>

# Question 5:

Support you have a html tag like this

<div>Javascript Developer</div>

Write a small html code to add a class on this div. Add a rounded border box on this div and also there should be a gap of 5px between the text and the rounded box and the text.

Ans:

<!DOCTYPE html>

<html>

<head>

<style>

.box {

border: 2px solid red;

padding: 5px;

}

</style>

</head>

<body>

<div class ="box">

javascript developer

</div>

</body>

</html>

# Question 6

Write css to center a box on the page. Let’s see we have a blank empty page and we want to create a box of size 100px x 100px and it should be the center of the page always. How will you do it?

Ans:

<!DOCTYPE html>

<html>

<head>

<style>

.box {

height: 100px;

width: 100px;

margin: 170px auto;

border: 2px solid red;

padding:90px

}

</style>

</head>

<body>

<div class ="box">

<h1>javascript</h1>

<h3>javascript</h3>

</div>

</body>

</html>

# Question 7

Let’s see we an api url [www.example.com/api/get/1](http://www.example.com/api/get/1)

Write a sample code to call this url via ajax and print its response

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="APICall.aspx.cs" Inherits="WebApplication1.APICall" %>

<head runat="server">

    <script src="jquery-1.7.1.js" type="text/javascript"></script>

     <script>

         $(document).ready(**function** () {

             $("#Save").click(**function** () {

                 $.ajax({

                     url: [www.example.com/api/get/1](http://www.example.com/api/get/1),

                     type: 'GET',

                     dataType: 'json',

                     success: **function** (data, textStatus, xhr) {

                         console.log(data);

                     },

                     error: **function** (xhr, textStatus, errorThrown) {

                         console.log('Error in Operation');

                     }

                 });

             });

         });

    </script>

</head>

<body>

</body>

</html>

# Question 8

Assume there is a json object of this format

var obj = {

 “id” : 4, “name” : “abc”,

 “id” : 10, “name” : “ab2”,

 “id” : 5, “name” : “abc3”,

 “id” : 6, “name” : “abc5”

}

Write a code to sort the object by id

Ans:

var obj = {

"user1" : {

"id" : 3

},

"user2" : {

"id" : 6

},

"user3" : {

"id" : 1

}

}