1. **Write a JavaScript to display hello world.**

CODING:

<! DOCTYPE html>

<html>

<head>

<title>Write s JvaScript to display hello world.

</title>

<script type="text/javascript">

document.write("Hello World");

</script>

</head>

</html>

1. **Write JavaScript to demonstrate the use of different dialogue boxes.**

For example: write massages good morning, good bye etc, take value from alert, confirmation for any operation.

CODING:

<!DOCTYPE html>

<html>

<head>

<title>Demo</title>

<script type="text/javascript">

alert("Good Morning!");

var msg=prompt("Enter a greeting","Hey!");

var check=confirm("Are you sure you want to send this greeting?");

document.write("Greeting : Good Morning!<br><br>");

if(check==1)

{

if (msg==null)

document.write("You didn't enter a greeting.");

else

document.write("Your reply : " + msg);

}

else

document.write("You don't have any manners!");

</script>

</head>

</html>

1. **Write a JavaScript program to calculate area of circle. (3.14\*r\*r).**

CODING:

<! DOCTYPE html>

<html>

<head>

<title>Area of Circle

</title>

<script type="text/javascript">

{

var r=prompt("Enter The Value OF R.=")

document.write("<h1>", "CALCULATED AREA OF CIRCLE=", 3.14\*r\*r, "</h1>");

}

</script>

</head>

</html>

1. **Write a JavaScript program to convert Celsius to Fahrenheit. (1.8\*c+32)**

CODING:

<! DOCTYPE html>

<html>

<head>

<title>Celsius to Fahrenheit

</title>

<script type="text/javascript">

{

var x=prompt("Enter The Value OF X.=")

if(x!==null){

document.write("<h1>", "CELSIUS TO FAHRENHEIT=", ((x\*1.8)+32), "</h1>");

}

}

</script>

</head>

</html>

1. **Write a JavaScript program to find factorial of a number.**

CODING:

<!doctype html>

<html>

<head>

<script>

function show(){

var i, no, fact;

fact=1;

no=document.getElementById("num").value;

for(i=1; i<=no; ++i)

{

fact= fact\*i;

}

document.getElementById("answer").value= fact;

}

</script>

</head>

<body>

Enter Num: <input type="text" id="num"><br><br>

<input type="button" value="Factorial" onclick="show()">

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

</body>

</html>

1. **Javascript if**

<!DOCTYPE html>

<html>

<body>

<h2>JavaScript if</h2>

<p>Display "Good day!" if the hour is less than 18:00:</p>

<p id="demo">Good Evening!</p>

<script>

if (new Date().getHours() < 18) {

document.getElementById("demo").innerHTML = "Good day!";

}

</script>

</body>

</html>

1. **Javascript if-else**

<!DOCTYPE html>

<html>

<body>

<h2>JavaScript if .. else</h2>

<p>A time-based greeting:</p>

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

<script>

const hour = new Date().getHours();

let greeting;

if (hour < 18) {

greeting = "Good day";

} else {

greeting = "Good evening";

}

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

</script>

</body>

</html>

1. **Java script if-else-if**

<!DOCTYPE html>

<html>

<body>

<h2>JavaScript if .. else</h2>

<p>A time-based greeting:</p>

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

<script>

const time = new Date().getHours();

let greeting;

if (time < 10) {

greeting = "Good morning";

} else if (time < 20) {

greeting = "Good day";

} else {

greeting = "Good evening";

}

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

</script>

</body>

</html>

1. **JavaScript Switch Statement**

<!DOCTYPE html>

<html>

<body>

<h2>JavaScript switch</h2>

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

<script>

let day;

switch (new Date().getDay()) {

case 0:

day = "Sunday";

break;

case 1:

day = "Monday";

break;

case 2:

day = "Tuesday";

break;

case 3:

day = "Wednesday";

break;

case 4:

day = "Thursday";

break;

case 5:

day = "Friday";

break;

case 6:

day = "Saturday";

}

document.getElementById("demo").innerHTML = "Today is " + day;

</script>

</body>

</html>

1. **Javascript Sorting an array**

<!DOCTYPE html>

<html>

<body>

<h2>JavaScript Array Sort</h2>

<p>The sort() method sorts an array alphabetically:</p>

<p id="demo1"></p>

<p id="demo2"></p>

<script>

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

document.getElementById("demo1").innerHTML = fruits;

fruits.sort();

document.getElementById("demo2").innerHTML = fruits;

</script>

</body>

</html>

1. **Javascript Reversing an array**

<!DOCTYPE html>

<html>

<body>

<h2>JavaScript Array Sort Reverse</h2>

<p>The reverse() method reverses the elements in an array.</p>

<p>By combining sort() and reverse() you can sort an array in descending order:</p>

<p id="demo1"></p>

<p id="demo2"></p>

<script>

// Create and display an array:

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

document.getElementById("demo1").innerHTML = fruits;

// First sort the array

fruits.sort();

// Then reverse it:

fruits.reverse();

document.getElementById("demo2").innerHTML = fruits;

</script>

</body>

</html>

1. **Javascript pop() and push()**

<!DOCTYPE html>

<html>

<body>

<h2>JavaScript Array Methods</h2>

<h2>pop()</h2>

<p>The pop() method removes the last element from an array.</p>

<p id="demo1"></p>

<p id="demo2"></p>

<script>

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

document.getElementById("demo1").innerHTML = fruits;

fruits.pop();

document.getElementById("demo2").innerHTML = fruits;

</script>

</body>

</html>

<!DOCTYPE html>

<html>

<body>

<h2>JavaScript Array Methods</h2>

<h2>push()</h2>

<p>The push() method appends a new element to an array:</p>

<p id="demo1"></p>

<p id="demo2"></p>

<script>

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

document.getElementById("demo1").innerHTML = fruits;

fruits.push("Kiwi");

document.getElementById("demo2").innerHTML = fruits;

</script>

</body>

</html>

1. **Write a JavaScript program to calculate multiplication table.**

CODING:

<! DOCTYPE html>

<html>

<head>

<title>

</title>

<script type="text/javascript">

{

var n,c;

var n=prompt("Enter The Table OF Number=")

document.write("<h2>", "Multiplication Table Of ", n , " is:-" );

for(c=1;c<=10;++c)

document.write("<br>", n, "\*", c, "=", n\*c);

}

</script>

</head>

</html>

1. **Write a JavaScript program to validate a form which consist of name, Age, address, email id, hobby(checkbox), gender(radio button), country (dropdown).**

CODING:

<!DOCTYPE html>

<html>

<head>

<title></title>

<script>

function validateform(){

var name=document.myform.name.value;

var lname=document.myform.lname.value;

var address=document.myform.address.value;

var x=document.myform.email.value;

var atposition=x.indexOf("@");

var dotposition=x.lastIndexOf(".");

var password=document.myform.password.value;

var gender=document.myform.gender.value;

var country=document.myform.country.value;

if (myform.name==null || name=="" && myform.lname==null || lname==""){

alert("Input First & Last name.");

return false;

}

if(address.length==0){

alert("address can't be blanked.");

return false;

}

if (atposition<1 || dotposition<atposition+2 || dotposition+2>=x.length){

alert("Please enter a valid e-mail address \n atpostion:"+atposition+"\n dotposition:"+dotposition);

return false;

}

if(password.length<8){

alert("Password must be at least 8 characters long.");

return false;

}

if(myform.gender[0].checked==false && myform.gender[1].checked==false){

alert("Select Your Gender");

return false;

}

if(myform.country.value=='0'){

alert("Select Your Country");

return false;

}

if(myform.sing.checked==false && myform.danc.checked==false && myform.pain.checked==false){

alert("Select Your hobby");

return false;

}

}

</script>

</head>

<body align="center">

<h1><b><i><u>REGISTRATION FORM</u></i></b></h1><HR>

<form name="myform" onsubmit="return validateform()">

First Name:<input type="text" name="name" placeholder="Your First Name"><br><br>

Last Name:<input type="text" name="lname" placeholder="Your Last Name"><br><br>

Address<br>

<textarea rows="2" cols="35" name="address" placeholder="Enter Your Address"></textarea><br><br>

Email:<input type="text" name="email" placeholder="Example@gmail.com"><br><br>

Password:<input type="password" name="password" placeholder="Input Gmail Password."><br><br>

Gender:<input type="radio" name="gender" value="male">MALE<input type="radio" name="gender" value="female">FEMALE<br><br>

<select name="country">dsff<option value="1">India</option><option value="2">U.S.A.</option><option value="3">U.A.E.</option><option selected value="0">Select Your Country</option></select><br><br>

Hobby:<br>

<input type="checkbox" name="sing" >Singing<br>

<input type="checkbox" name="danc" >Dancing<br>

<input type="checkbox" name="pain" >Painting<br><br>

<div align="center"><input type="submit" value="SUBMIT">&nbsp;&nbsp;<input type="reset" value="CANCEL" >

</form>

</body>

</html>

1. **Create one form in which username must be 10 characters long, last name must be 5 characters long, validate email address and also validate for nonempty (fields must not be blank) fields.**

CODING:

<!DOCTYPE html>

<html>

<head>

<title></title>

<script>

function validateform(){

var name=document.myform.name.value;

var lname=document.myform.lname.value;

var x=document.myform.email.value;

var atposition=x.indexOf("@");

var dotposition=x.lastIndexOf(".");

if (name.length<10){

alert("Input First Name must be 10 char.");

return false; }

if (lname.length<5 ){

alert("Input Last Name must be 5 char.");

return false;}

if (atposition<1 || dotposition<atposition+2 || dotposition+2>=x.length){ alert("Please enter a valid e-mail address. \n atpostion:"+atposition+"\n dotposition:"+dotposition);

return false;

}

}

</script>

</head>

<body>

<form name="myform" onsubmit="return validateform()">

First Name:<input type="text" name="name" placeholder="Your First Name"><br>

Last Name:<input type="text" name="lname" placeholder="Your Last Name"><br>

Email:<input type="text" name="email" placeholder="Example@gmail.com"><br>

<input type="submit" Value="SEND IT!">

<input type="reset" value="CANCEL">

</form>

</body>

</html>

1. **Create JavaScript program which have list of color in dropdown menu, if user can select any color from dropdown menu this color will set to the background of document.**

CODING:

<html>

<head>

<script>

function background(bg)

{

document.bgColor=bg.options[bg.selectedIndex].value;

}

</script>

</head>

<body>

CHOOSE COLOR:

<select id="color" onClick="background(this)">

<option value="FFFFCC" >light yellow</option>

<option value="CCFFFF">light blue</option>

<option value="CCFFCC">light green</option>

<option value="gray">gray</option>

<option value="FFFFFF">white</option>

</select>

</body>

</html>

**Q) Write a Javascript program to find the largest and smallest among 10 numbers in an array.**

<!DOCTYPE html>

<html>

<head>

<title>Largest and Smallest Numbers</title>

<script>

function findLargestAndSmallest() {

let array = [];

for (let i = 1; i <= 10; i++) {

let num = parseInt(prompt("Enter number #" + i));

array.push(num);

}

let max = array[0];

let min = array[0];

for (let i = 1; i < array.length; i++) {

if (array[i] > max) {

max = array[i];

}

if (array[i] < min) {

min = array[i];

}

}

document.getElementById("result").innerHTML = "Largest element is: " + max + "<br>Smallest element is: " + min;

}

</script>

</head>

<body>

<h1>Largest and Smallest Numbers</h1>

<button onclick="findLargestAndSmallest()">Find Largest and Smallest</button>

<div id="result"></div>

</body>

</html>