**JavaScript- 1**

1. **Write a program in Javascript to create variables to store numeric, float, string and Boolean values and show them in page with document.write() function.**

<!DOCTYPE html>

<html>

<head>

<meta charset="utf-8">

<title></title>

</head>

<body>

<script type="text/javascript">

var n1= 10;

var n2=20.5;

var n= "Hello";

document.write("<br> N1= "+n1);

document.write("<br> N2= "+n2);

document.write("<br> String= "+n);

document.write('<br> Boolean value= ' + Boolean(n1>n2));

</script>

</body>

</html>

1. **Write a program to input two data values for Your Name and Student Id in prompt dialog boxes and show them in alert dialog box.**

<!DOCTYPE html>

<html>

<head>

<meta charset="utf-8">

<title></title>

<script type="text/javascript">

var name= prompt("Enter your name: ");

document.write("Name: "+ name);

var n= parseInt(prompt("Enter your ID Number",""));

document.write("<br> ID Number: "+ n);

</script>

</head>

<body>

</body>

</html>

1. **WAP to show the use if …. Else if …. else for following conditions:**
   1. **For marks > = 80 and marks <=100, show Distinction**
   2. **For marks >=60 and marks < 80, show First Division**
   3. **For marks >=50 and marks < 60, show Second Division**
   4. **For marks >=40 and marks <50, show Third Division**
   5. **For marks < 40, show Fail**

<!DOCTYPE html>

<html>

<head>

<meta charset="utf-8">

<title></title>

<script>

var m = 'Enter the percentage of student:';

//printing message for user input

var a = prompt(m);

if(a>=80 && a<=100)

{

document.write('Distinction');}

else if(a<80 && a>=60)

{

document.write('First Division');}

else if(a<60 && a>=50)

{

document.write('Second Division');}

else if(a<50 && a>=40)

{

document.write('Third Division');}

else if(a<40 && a>=0)

{

document.write('Failed!');}

else

{document.write('Invalid!');}

</script>

</head>

<body>

</body>

</html>

1. **WAP to get number input with prompt dialog dox and show the Day using switch case**
   1. **For Case 1, show Sunday**
   2. **For Case 2, show Monday**
   3. **For Case 3, show Tuesday**
   4. **For Case 4, show Wednesday**
   5. **For Case 5, show Thursday**
   6. **For Case 6, show Friday**
   7. **For Case 7, show Saturday**
   8. **For default, show Invalid**

<!DOCTYPE html>

<html>

<head>

<meta charset="utf-8">

<title></title>

<script>

var day= parseInt(prompt("Enter your Number",""));

switch (day)

{

case 1:

document.write("Sunday");

break;

case 2:

document.write("Monday");

break;

case 3:

document.write("Tuesday");

break;

case 4:

document.write("Wednesday");

break;

case 5:

document.write("Thursday");

break;

case 6:

document.write("Friday");

break;

case 7:

document.write("Saturday");

break;

default:

document.write("Invalid!");

}

</script>

</head>

<body>

</body>

</html>

1. **WAP in javascript using for loop to display 4 images with image name as 1.jpg, 2.jpg, 3.jpg and 4.jpg.**

<!DOCTYPE html>

<html>

<head>

<meta charset="utf-8">

<title></title>

</head>

<body>

<img src="1.jpeg" id="mainImage">

<script type="text/javascript">

var myImage= document.getElementById('mainImage');

var imageArray= ["1.jpg","2.jpg","3.jpg","4.jpg"];

var imageIndex=1;

function changeImage()

{

myImage.setAttribute("src",imageArray[imageIndex]);

for(imageIndex=0;imageIndex<3;imageIndex++);

}

</script>

<button onclick="changeImage()" style="border-radius: 100%;">Next</button>

</body>

</html>

1. **WAP to display multiplication number of 5 as follows:**

**5 \* 1 = 5**

**5 \* 2 = 10**

**5 \* 3 = 15**

**……………**

**…………….**

**5 \* 10 = 50**

<!DOCTYPE html>

<html>

<head>

<meta charset="utf-8">

<title></title>

<script>

var f=5;

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

a= 5 \* i;

document.write("<br> 5 \* " +i +" = "+ a );

}

</script>

</head>

<body>

</body>

</html>

1. **WAP in javascript using loop to display following table layout and with alternate background color on data rows**

Table

Description automatically generated

<html>

<head>

<style>

table {

border-collapse: collapse;

width: 100%;

}

th, td {

text-align: left;

padding: 8px;

}

tr:nth-child(even) {

background-color: lightgoldenrodyellow;

}

</style>

</head>

<body>

<table>

<tr>

<th>S.N</th>

<th>Name</th>

<th>Image</th>

</tr>

<tr>

<td>1</td>

<td>Name 1</td>

<td><img src="1.jpeg" alt="" border=3 height=100 width=100></img></td>

</tr>

<tr>

<td>2</td>

<td>Name 2</td>

<td><img src="2.jpeg" alt="" border=3 height=100 width=100></img></td>

</tr>

<tr>

<td>3</td>

<td>Name 3</td>

<td><img src="3.jpeg" alt="" border=3 height=100 width=100></img></td>

</tr>

<tr>

<td>4</td>

<td>Name 4</td>

<td><img src="4.jpeg" alt="" border=3 height=100 width=100></img></td>

</tr>

</table>

</body>

</html>

1. **Write a simple JavaScript program to join all elements of the following array into a string. *Sample array* : myColor = ["Red", "Green", "White", "Black"];**

***Expected Output* :   
"Red,Green,White,Black"  
"Red,Green,White,Black"  
"Red+Green+White+Black"**

**Hint: Use these array functions**

**myColor.toString();**

**myColor.join();**

**myColor.join('+');**

<!DOCTYPE html>

<html>

<head>

<meta charset="utf-8">

<title></title>

<script>

myColor = ["Red", "Green", "White", "Black"];

alert(myColor.toString());

alert(myColor.join());

alert(myColor.join('+'));

</script>

</head>

<body>

</body>

</html>

1. **Write a JavaScript program to compute the sum and product of an array of integers.**

<!DOCTYPE html>

<html>

<head>

<meta charset="utf-8">

<title></title>

<script>

var array = [7, 5, 4, 2, 9, 1],

s = 0,

p = 1,

i;

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

{

s += array[i];

p \*= array[i];

}

alert('Sum : '+s + ' Product : ' +p);

</script>

</head>

<body>

</body>

</html>

1. **Write a Javascript function to calculate area of rectangle which accepts two parameters – length and breadth.**

<!DOCTYPE html>

<html>

<head>

<meta charset="utf-8">

<title></title>

<script>

var length= parseInt(prompt("Enter Length: "," "));

var breadth= parseInt(prompt("Enter Breadth: "," "));

var area= length \* breadth;

document.write("<br> Area = " +area);

</script>

</head>

<body>

</body>

</html>

1. **Write a JavaScript program to add items in an blank array and display the items using function.**

**Sample screen:**

**Graphical user interface, text, application

Description automatically generated**

<html>

<head>

<meta charset=utf-8 />

<title> </title>

<style>

body {padding-top:50px}

</style>

</head>

<body>

<input type="text" id="text1"></input>

<input type="button" id="button1" value="Add" onclick="add\_element\_to\_array();"></input>

<input type="button" id="button2" value="Display" onclick="display\_array();"></input>

<div id="Result"></div>

<script>

var x = 0;

var array = Array();

function add\_element\_to\_array()

{

array[x] = document.getElementById("text1").value;

alert("Element: " + array[x] + " Added at index " + x);

x++;

document.getElementById("text1").value = "";

}

function display\_array()

{

var e = "<hr/>";

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

{

e += "Element " + y + " = " + array[y] + "<br/>";

}

document.getElementById("Result").innerHTML = e;

}

</script>

</body>

</html>