**JavaScript Exercises**

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 lang="en">

<head>

<meta charset="UTF-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Excercise 1</title>

</head>

<body>

<p>

<script>

var string="Something";

document.write("The values of string is "+string);

</script>

<br>

<script>

var numeric=10;

document.write("The numeric value is "+numeric);

</script>

<br>

<script>

var float=11.23;

document.write("The value of float is "+float);

</script>

<br>

<script>

var bool;

if(float>numeric){

bool=true

}

else{

bool=false;

}

if(bool=true){

document.write("The value of float is greater.")

}

else

document.write("The value of numeric is greater.")

</script>

<br>

</p>

</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.
2. <!DOCTYPE html>
3. <html lang="en">
4. <head>
5. <meta charset="UTF-8">
6. <meta http-equiv="X-UA-Compatible" content="IE=edge">
7. <meta name="viewport" content="width=device-width, initial-scale=1.0">
8. <title>Exercise 2</title>
9. <script>
10. function input(){
11. var name;
12. var id;
13. name = prompt("Name : ");
14. id = parseInt(prompt("Student Id : "));
15. alert("Your name is "+name +" and your Student id is "+id+2);
16. }
17. </script>
18. </head>
19. <body>
20. <p>
21. <button onclick="input()">Click Here to Enter</button>
22. </p>
23. </body>
24. </html>
25. 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

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<title>Exercise 3

</title>

<script>

var marks;

marks=prompt("Enter the marks");

function display(){

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

document.getElementById("themarks").innerHTML="Distinction";

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

document.getElementById("themarks").innerHTML="First Division";

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

document.getElementById("themarks").innerHTML="Second Division";

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

document.getElementById("themarks").innerHTML="Third Division";

else

document.getElementById("themarks").innerHTML="Fail";

}

</script>

</head>

<body>

<button onclick="display()">Click here to Display the Division</button>

<p id="themarks"></p>

</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

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<title>Exercise 4</title>

<script>

var cho;

cho=prompt("Enter your choice (1-7)");

function display()

{

switch(cho){

case '1':

document.getElementById("here").innerHTML="Sunday";

break;

case '2':

document.getElementById("here").innerHTML="Monday";

break;

case '3':

document.getElementById("here").innerHTML="Tuesday";

break;

case '4':

document.getElementById("here").innerHTML="Wednesday";

break;

case '5':

document.getElementById("here").innerHTML="Thursday";

break;

case '6':

document.getElementById("here").innerHTML="Friday";

break;

case '7':

document.getElementById("here").innerHTML="Saturday";

break;

default:

document.getElementById("here").innerHTML="Wrong choice";

break;

}

}

</script>

</head>

<body>

<p><button onclick="display()">Click here to see the date</button></p><br>

<p id="here"></p>

</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.

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<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Exercise 5</title>

<script>

function thedate(){

var current;

current=Date();

document.getElementById("here").innerHTML=" "+current;

}

</script>

</head>

<body>

<button onclick="thedate()">Click here to see the date</button>

<p id="here"></p>

</body>

</html>

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

5 \* 1 = 5

5 \* 2 = 10

5 \* 3 = 15

……………

…………….

5 \* 10 = 50

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<title>Exercise 6</title>

<script>

var num;

num=prompt("Enter the number");

</script>

</head>

<body>

<script>

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

var mult;

mult=num\*i;

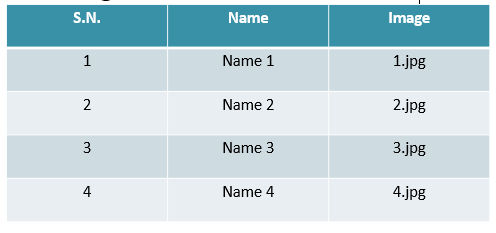
document.write("<br>"+num+" \* "+i+" = "+mult);

}

</script>

</html>

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



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('+');

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<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Exercise 8</title>

<script>

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

function display(){

document.write(array.toString()+"<br>");

document.write(array.join()+"<br>");

document.write(array.join('+')+"<br>");

}

</script>

</head>

<body>

<button onclick="display()">Click here to display</button>

</body>

</html>

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

<!DOCTYPE html>

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<title>Exercise 9</title>

<script>

var array=[10,18,13,17,19,21];

function Sum(){

var sum=0;

for(var i=0;i<6;i++){

sum+=array[i];

}

document.getElementById('here').innerHTML=sum;

}

function product(){

var mult=1;

for(var i=0;i<6;i++){

mult\*=array[i];

}

document.getElementById('here2').innerHTML=mult;

}

</script>

</head>

<body>

<button onclick="Sum()">Click here to see the sum</button><br>

<p id="here"></p>

<br>

<button onclick="product()">Click here to see the product below</button> <br>

<p id="here2"></p>

</body>

</html>

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

<!DOCTYPE html>

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<head>

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<title>Exercise 10</title>

<script>

var length;

var breadth;

length=parseFloat(prompt("Enter the length : "));

breadth=parseFloat(prompt("Enter the breadth : "));

function calc(){

var area;

area=length\*breadth;

document.getElementById("here").innerHTML=area;

}

</script>

</head>

<body>

<button onclick="calc()">Click here to see the area</button>

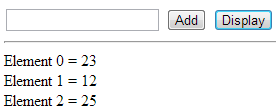
<p id="here"></p>

</body>

</html>

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

Sample screen:



**Hint:**

function add\_item\_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;

}

<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>

Solution

1.

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

alert(myColor.toString());

alert(myColor.join());

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

2.

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;

}

<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>

3.

var array = [1, 2, 3, 4, 5, 6],

s = 0,

p = 1,

i;

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

{

s += array[i];

p \*= array[i];

}

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