**Day 9- JavaScript Worksheet**

https://lh6.googleusercontent.com/pzfkpYzj_xNKuCIRaMdGOcJRGHimowNa5u7Ned4rI9rrL8AGediPxVgoTzYM65B3F7T2wKnzzs4NN42aMrsGf_ZZvSDkx9V2RHZ5SJ6YjjldEA7E9x9SwUSXZmLWBKV9rfHuNRbkG3bXpFexSg

**Refresh yesterday’s Class-10 Minutes**

1. Changing the style of an HTML element, which of the followed is true?
2. document.getElementById("demo")fontSize = "25px";
3. document.getElementById("demo").fontSize = "25px";
4. document.getElementById("demo").style.fontSize = "25px";
5. document.getElementById("demo").style.font = "25px";
6. We can include JavaScript code anywhere in an html document.
7. True
8. False
9. We can save JavaScript source code in a simple text file with the extension
10. .html
11. .css
12. .java
13. .js

**Activity-40 Minutes**

* **JavaScript Variables**

<html>

<body>

<script>

var x = 10;

var y = 20;

var z=x+y;

document.write(z);

</script>

</body>

</html>

**JavaScript local variable**

<html>

<body>

<script>

function abc()

{

var x=10; //local variable

}

</script>

</body>

</html>

**OR**

<html>

<body>

<script>

If(10<13)

{

var y=20; //JavaScript local variable

}

</script>

</body>

</html>

**JavaScript global variable**

<html>

<body>

<script>

var data=200;//gloabal variable

function a(){

document.writeln(data);

}

function b(){

document.writeln(data);

}

a();//calling JavaScript function

b();

</script>

</body>

</html>

* **JavaScript Operators**
  + **Arithmetic**
  + **Assignment**
  + **Comparison**

**Arithmetic**

**Output**

a + b = 43  
a - b = 23  
a / b = 3.3  
a % b = 3  
a + b + c = 43Test  
++a = 35  
--b = 8  
Set the variables to different values and then try...

<html>

<body>

<script type="text/javascript">

<!--

var a = 33;

var b = 10;

var c = "Test";

var linebreak = "<br />";

document.write("a + b = ");

result = a + b;

document.write(result);

document.write(linebreak);

document.write("a - b = ");

result = a - b;

document.write(result);

document.write(linebreak);

document.write("a / b = ");

result = a / b;

document.write(result);

document.write(linebreak);

document.write("a % b = ");

result = a % b;

document.write(result);

document.write(linebreak);

document.write("a + b + c = ");

result = a + b + c;

document.write(result);

document.write(linebreak);

a = ++a;

document.write("++a = ");

result = ++a;

document.write(result);

document.write(linebreak);

b = --b;

document.write("--b = ");

result = --b;

document.write(result);

document.write(linebreak);

//-->

</script>

Set the variables to different values and then try...

</body>

</html>

**Comparison**

**Output**

(a == b) => false  
(a < b) => true  
(a > b) => false  
(a != b) => true  
(a >= b) => false  
(a <= b) => true  
Set the variables to different values and different operators and then try...

<html>

<body>

<script type="text/javascript">

<!--

var a = 10;

var b = 20;

var linebreak = "<br />";

document.write("(a == b) => ");

result = (a == b);

document.write(result);

document.write(linebreak);

document.write("(a < b) => ");

result = (a < b);

document.write(result);

document.write(linebreak);

document.write("(a > b) => ");

result = (a > b);

document.write(result);

document.write(linebreak);

document.write("(a != b) => ");

result = (a != b);

document.write(result);

document.write(linebreak);

document.write("(a >= b) => ");

result = (a >= b);

document.write(result);

document.write(linebreak);

document.write("(a <= b) => ");

result = (a <= b);

document.write(result);

document.write(linebreak);

//-->

</script>

Set the variables to different values and different operators and then try...

</body>

</html>

**Assignment**

**Output**

Value of a => (a = b) => 10  
Value of a => (a += b) => 20  
Value of a => (a -= b) => 10  
Value of a => (a \*= b) => 100  
Value of a => (a /= b) => 10  
Value of a => (a %= b) => 0

Set the variables to different values and different operators and then try...

<html>

<body>

<script type="text/javascript">

<!--

var a = 33;

var b = 10;

var linebreak = "<br />";

document.write("Value of a => (a = b) => ");

result = (a = b);

document.write(result);

document.write(linebreak);

document.write("Value of a => (a += b) => ");

result = (a += b);

document.write(result);

document.write(linebreak);

document.write("Value of a => (a -= b) => ");

result = (a -= b);

document.write(result);

document.write(linebreak);

document.write("Value of a => (a \*= b) => ");

result = (a \*= b);

document.write(result);

document.write(linebreak);

document.write("Value of a => (a /= b) => ");

result = (a /= b);

document.write(result);

document.write(linebreak);

document.write("Value of a => (a %= b) => ");

result = (a %= b);

document.write(result);

document.write(linebreak);

//-->

</script>

<p>Set the variables to different values and different operators and then try...</p>

</body>

</html>

**Activity- 1 Hour**

* + **JavaScript Functions**
* 

<html>

<body>

<script>

function msg(){

alert("hello! this is message");

}

</script>

<input type="button" onclick="msg()" value="call function"/>

</body>

</html>

* + **JavaScript Dates**

**Output**

Current Date and Time: Tue Jul 04 2017 12:12:22 GMT-0700 (Pacific Daylight Time)

<html>

<body>

Current Date and Time: <span id="txt"></span>

<script>

var today=new Date();

document.getElementById('txt').innerHTML=today;

</script>

</body>

</html>

### **JavaScript Current Time**

**Output**

Current Time: 12:15:57

<html>

<body>

Current Time: <span id="txt"></span>

<script>

var today=new Date();

var h=today.getHours();

var m=today.getMinutes();

var s=today.getSeconds();

document.getElementById('txt').innerHTML=h+":"+m+":"+s;

</script>

</body>

</html>

**JavaScript Today’s date**

**Output**

Date is: 4/7/2017

<html>

<body>

<script>

var date=new Date();

var day=date.getDate();

var month=date.getMonth()+1;

var year=date.getFullYear();

document.write("<br>Date is: "+day+"/"+month+"/"+year);

</script>

</body>

</html>

### **JavaScript Digital Clock Example**

<html>

<body>

Current Time: <span id="txt"></span>

<script>

window.onload=function(){getTime();}

function getTime(){

var today=new Date();

var h=today.getHours();

var m=today.getMinutes();

var s=today.getSeconds();

// add a zero in front of numbers<10

m=checkTime(m);

s=checkTime(s);

document.getElementById('txt').innerHTML=h+":"+m+":"+s;

setTimeout(function(){getTime()},1000);

}

//setInterval("getTime()",1000);//another way

function checkTime(i){

if (i<10){

i="0" + i;

}

return i;

}

</script>

</body>

</html>