

Refresh yesterday's Class-10 Minutes

- 1. Changing the style of an HTML element, which of the followed is true?
 - a) document.getElementById("demo")fontSize = "25px";
 - b) document.getElementById("demo").fontSize = "25px";
 - c) document.getElementById("demo").style.fontSize = "25px";
 - d) document.getElementById("demo").style.font = "25px";
- 2. We can include JavaScript code anywhere in an html document.
 - a) True
 - b) False
- 3. We can save JavaScript source code in a simple text file with the extension
 - a) .html
 - b) .css
 - c) .java
 - **d)** .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 \le 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...

```
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>
   Set the variables to different values and different operators and then try...
 </body>
</html>
```

Activity-1 Hour

JavaScript Functions

```
call function
<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;

HTML - Lesson 9 Page #7
```

```
</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>
```