

AULA 9

1) Seguir o link disponível abaixo

<http://www.dofactory.com/tutorial/what-is-javascript>

2) Acompanhar os exemplos (apresentados em aula) e responder as seguintes questões

- 2.1) Explique como funciona a declaração de uma variável em JavaScript.
- 2.2) Quais são os tipos compatíveis com JavaScript para declaração de uma variável ?
- 2.3) O que é um escopo local ? O que é um escopo global ?
- 2.4) Defina função e dê um exemplo de código em JavaScript.
- 2.5) Quais são os tipos de loops existentes em JavaScript. Comente cada um deles.

3) Faça os exemplos abaixo e comente o que cada um deles faz.

EXEMPLO - 1

```
<script type="text/javascript">
function temp (form) {
    form.fahrenheit.value = form.celsius.value*1.8+32;
}
</script>
```

```
<form>
<div align="center">
<center>
<p>
<input type="text" size="15" name="celsius">
<strong>Degrees Celsius</strong>

<input type="button" value=" = " onclick="temp(this.form)">
<input type="text" size="15" name="fahrenheit"> <strong>Degrees
Fahrenheit</strong>
</p>
</center></div>
</form>
```

EXEMPLO – 2

```
<script type="text/javascript">
    var d=new Date();
    document.write('Today is ' + d + ' <br> ');
</script>
```

EXEMPLO – 3

```
<script type="text/javascript">
//
// Description: Randomly change background color every 5 seconds
//
// NewcWare 1997
// Author: Scott Newcomer 3/1997
// Email: nuke@bright.net
//
function setBackground()
{
window.setTimeout( "setBackground()", 5000); // 5000 milliseconds delay

var index = Math.round(Math.random() * 9);

var ColorValue = "FFFFFF"; // default color - white (index = 0)

if(index == 1)
ColorValue = "FFCCCC"; //peach
if(index == 2)
ColorValue = "CCAFFF"; //violet
if(index == 3)
ColorValue = "A6BEFF"; //lt blue
if(index == 4)
ColorValue = "99FFFF"; //cyan
if(index == 5)
ColorValue = "D5CCBB"; //tan
if(index == 6)
ColorValue = "99FF99"; //lt green
if(index == 7)
ColorValue = "FFFF99"; //lt yellow
if(index == 8)
ColorValue = "FFCC99"; //lt orange
if(index == 9)
ColorValue = "CCCCCC"; //lt grey

document.getElementsByTagName("body")[0].style.backgroundColor = "#" +
ColorValue;

}</script>
<body onload="setBackground();">
```

EXEMPLO – 4

```
<script type="text/javascript">
//store the quotations in arrays
quotes = [];
authors = [];
quotes[0] = "I have a new philosophy. I'm only going to dread one day at a
time.";
authors[0] = "Charles Schulz";
quotes[1] = "Reality is the leading cause of stress for those in touch with it.";
authors[1] = "Jack Wagner";
quotes[2] = "Few things are harder to put up with than the annoyance of a good
example.";
authors[2] = "Mark Twain";
quotes[3] = "The pure and simple truth is rarely pure and never simple.";
authors[3] = "Oscar Wilde";
quotes[4] = "There's no business like show business, but there are several
businesses like accounting.";
authors[4] = "David Letterman";
quotes[5] = "Man invented language to satisfy his deep need to complain.";
authors[5] = "Lily Tomlin";

//calculate a random index number
index = Math.floor(Math.random() * quotes.length);

//display the quotation
document.write("<DL>\n");
document.write("<DT>" + "\"" + quotes[index] + "\"</DT>\n");
document.write("<DD>" + "-- " + authors[index] + "</DT>\n");
document.write("</DL>\n");

//done
</script>
```

EXEMPLO 5

```
<script type="text/javascript">
var password = "please";
var x = prompt("Enter in the password "," ");
if (x.toLowerCase() == password) {
    alert("Come right in \n \n You've entered in the right password");
    window.location = "index.htm";
}
else {
    window.location = "bad.htm";
}
</script>
```