**Javascript string and math object**

**<html>**

**<body>**

**<h2><b>JavaScript String Methods<b></h2>**

**<p>The length property returns the length of a string:</p>**

**<p id="p1"></p>**

**<p>The indexOf() method returns the position of the first occurrence of a specified text:</p>**

**<p id="p2"></p>**

**<p>The slice() method extract a part of a string**

**and returns the extracted parts in a new string:</p>**

**<p id="p3"></p>**

**<p>The substring() method extract a part of a string and returns the**

**extracted parts in a new string. </p>**

**<p>Extract Apple from the string"Intel, Apple,Windows"**

**<p id="p4"></p>**

**<p>Replace "Microsoft" with "Windows" in the "Please visit Microsoft!"</p>**

**<p id="p5">Please visit Microsoft!</p>**

**<p>Convert string to upper case: Hello World!</p>**

**<p id="p6">Hello World!</p>**

**<p>The concat() method joins two or more strings:</p>**

**<p> concatenate Hello and World!</p>**

**<p id="p7"></p><br><br>**

**<h2><b>JavaScript Math objects</b></h2>**

**<p>Math.round(x) returns the value of x rounded to its nearest integer:4.4</p>**

**<p id="p8"></p>**

**<p>Math.ceil() rounds a number <strong>up</strong> to its nearest integer:4.4</p>**

**<p id="p9"></p>**

**<p>Math.trunc(x) returns the integer part of x: 4.7</p>**

**<p id="p10"></p>**

**<p>Math.pow(x,y) returns the value of x to the power of y: 8^2 </p>**

**<p id="p11"></p>**

**<p>Math.sqrt(x) returns the square root of x: 84</p>**

**<p id="p12"></p>**

**<p>Math.sin(x) returns the sin of x (given in radians):</p>**

**<p>Angle in radians = (angle in degrees) \* PI / 180.</p>**

**<p id="p13"></p>**

**<p>Math.min() returns the lowest value in a list of arguments:0, 150, 30, 20, -8, -200</p>**

**<p id="p14"></p>**

**<p>Math.random() returns a random number between 0 and 1:</p>**

**<p id="p15"></p>**

**<script>**

**var txt = "ABCDEFGHIJKLMNOPQRSTUVWXYZ";**

**var sln = txt.length;**

**document.getElementById("p1").innerHTML = sln;**

**var str = "Please locate where 'locate' occurs!";**

**var pos = str.indexOf("locate");**

**document.getElementById("p2").innerHTML = pos;**

**var str = "Samsung, Nokia, Oppo";**

**var res = str.slice(7,13);**

**document.getElementById("p3").innerHTML = res;**

**var str = "Intel, Apple,Windows";**

**var res = str.substring(7,12);**

**document.getElementById("p4").innerHTML = res;**

**var str = document.getElementById("p5").innerHTML;**

**var txt = str.replace("Microsoft","Windows");**

**document.getElementById("p5").innerHTML = txt;**

**var text = document.getElementById("p6").innerHTML;**

**document.getElementById("p6").innerHTML = text.toUpperCase();**

**var text1 = "Hello";**

**var text2 = "World!";**

**var text3 = text1.concat(" ",text2);**

**document.getElementById("p7").innerHTML = text3;**

**document.getElementById("p8").innerHTML = Math.round(4.4);**

**document.getElementById("p9").innerHTML = Math.ceil(4.4);**

**document.getElementById("p10").innerHTML = Math.trunc(4.7);**

**document.getElementById("p11").innerHTML = Math.pow(8,2);**

**document.getElementById("p12").innerHTML = Math.sqrt(64);**

**document.getElementById("p13").innerHTML =**

**"The sine value of 90 degrees is " + Math.sin(90 \* Math.PI / 180);**

**document.getElementById("p14").innerHTML =**

**Math.min(0, 150, 30, 20, -8, -200);**

**document.getElementById("p15").innerHTML = Math.random();**

**</script>**

**</body>**

**</html>**

