

String ► Khởi tạo: myString = new String ("Hello"); ► Thuộc tính: length (chiều dài kí tự), ví dụ: alert(myString.length) //5 ▶ Phương thức: Method Purpose anchor(name) Creates an anchor element (an <a> element with a name or id attribute rather than an href attribute). big() Displays text as if in a <big> element. bold() Displays text as if in a <bold> element. charAt(index) Returns the character at a specified position (for example, if you have a string that says "banana" and your method reads charAt (2) then you will end up with the letter n — remember that indexes start at 0). fixed() Displays text as if in a <tt> element.

tring (tt) Phương thức (tt)	32
fontcolor(color)	Displays text as if in a element with a color attribute.
fontsize(fontsize)	Displays text as if in a element with a size attribute.
<pre>indexOf(searchValue, [fromindex])</pre>	Returns the position of the first occurrence of the specified string searchValue inside another string. For example, if you have the word "banana" as your string, and you want to find the first occurrence of the letter n, you use indexOf(n). If the fromIndex argument is used, the search will begin at that index. For example, you might want to start after the fourth
	character.
	The method returns -1 if the string being searched for never occurs.

String (tt) Method Purpose italics() Displays text as if in an <i> element. ► Phương thức (tt) lastIndexOf(searchValue, Same as indexOf() method, but runs from right to left. [fromIndex]) link(targetURL) Creates a link in the document. small() Displays text as if in a <small> element. strike() Displays text as if in a <strike> element. sub() Displays text as if in a <sub> element. Returns the specified characters. 14,7 returns 7 characters, from substr(start), [length]) the 14th character (starts at 0). Note that this works only in IE4 and Netscape 4 and later versions. Returns the specified characters between the start and end substring(startPosition, index points. $^{1}\!\!7,\!14$ returns all characters from the 7^{th} up to but not including the 14^{th} (starts at 0). endPosition) Displays text as if in a <sup> element. sup() toLowerCase() Converts a string to lowercase. toUpperCase() Converts a string to uppercase.

Date Note Note

Date - methods getDate() Returns a number from 1 to 31 representing the day of the getUTCDate() month in local time or UTC. var current = new Date(); getDay() getUTCDay() Returns a number from 0 (Sunday) to 6 (Saturday) representing the day of the week in local time or UTC. Day = current.getDay(); getFullYear() getUTCFullYear() Returns the year as a four-digit number in local time or UTC. Returns a number from 0 to 23 representing hours since midnight in local time or UTC. getMilliseconds() getUTCMilliSeconds() Returns a number from 0 to 999 representing the number of milliseconds in local time or UTC, respectively. The time is stored in hours, minutes, seconds and milliseconds. getMinutes() getUTCMinutes() Returns a number from 0 to 59 representing the minutes for the time in local time or UTC. Returns a number from 0 (January) to 11 (December) repregetUTCMonth() senting the month in local time or UTC. getSeconds() Returns a number from 0 to 59 representing the seconds for getUTCSeconds() the time in local time or UTC. Returns the number of milliseconds between January 1, 1970, and the time in the Date object. getTimezoneOffset() Returns the difference in minutes between the current time on the local computer and UTC (Coordinated Universal Time).

	Method	Description
Date - methods	setMinutes(m , s , ms) setUTCMinutes(m , s , ms)	Sets the minute in local time or UTC. The second and third arguments, representing the seconds and milliseconds, are optional. If an optional argument is not specified, the current value in the Date object is used.
	$\begin{array}{c} {\rm setMonth}(\ m,\ d) \\ {\rm setUTCMonth}(\ m,\ d) \end{array}$	Sets the month in local time or UTC. The second argument, representing the date, is optional. If the optional argument is not specified, the current date value in the Date object is used.
	<pre>setSeconds(s, ms) setUTCSeconds(s, ms)</pre>	Sets the second in local time or UTC. The second argument, representing the milliseconds, is optional. If this argument is not specified, the current millisecond value in the Date object is used.
	setTime(ms)	Sets the time based on its argument—the number of elapsed milliseconds since January 1, 1970.
	setDate(val) setUTCDate(val)	Sets the day of the month (1 to 31) in local time or UTC.
	<pre>setFullYear(y, m, d) setUTCFullYear(y, m, d)</pre>	Sets the year in local time or UTC. The second and third arguments representing the month and the date are optional. If an optional argument is not specified, the current value in the Date object is used.
	setHours(h, m, s, ms) setUTCHours(h, m, s, ms)	Sets the hour in local time or UTC. The second, third and fourth arguments, representing the minutes, seconds and milliseconds, are optional. If an optional argument is not specified, the current value in the Date object is used.
	<pre>setMilliSeconds(ms) setUTCMilliseconds(ms)</pre>	Sets the number of milliseconds in local time or UTC.
EL TON ASSESSABLES AND		Activities (Market)

Date - methods 37 toLocaleString() Returns a string representation of the date and time in a form specific to the computer's locale. For example, September 13, 2007, at 3:42:22 PM is represented as 09/13/07 15:47:22 in the United States and 13/09/07 15:47:22 in Europe. Returns a string representation of the date and time in the toUTCString() form: 15 Sep 2007 15:47:22 UTC toString() Returns a string representation of the date and time in a form specific to the locale of the computer (Mon Sep 17 15:47:22 EDT 2007 in the United States). The time in number of milliseconds since midnight, January 1, valueOf() 1970. (Same as getTime.)

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Date - methods

Vi du:
var current = new Date();

document.writeln( "getDate: " + current.getDate() +
    "<br />getDay: " + current.getDay() +
    "<br />getFour: " + current.getMonth() +
    "<br />getFullYear: " + current.getFullYear() +
    "<br />getFullYear: " + current.getFullYear() +
    "<br />getHours: " + current.getHours() +
    "<br />getMinutes: " + current.getMinutes() +
    "<br />getSeconds: " + current.getSeconds() +
    "<br />getMilliseconds: " + current.getTimezoneOffset() );
```

Bài tập: Date

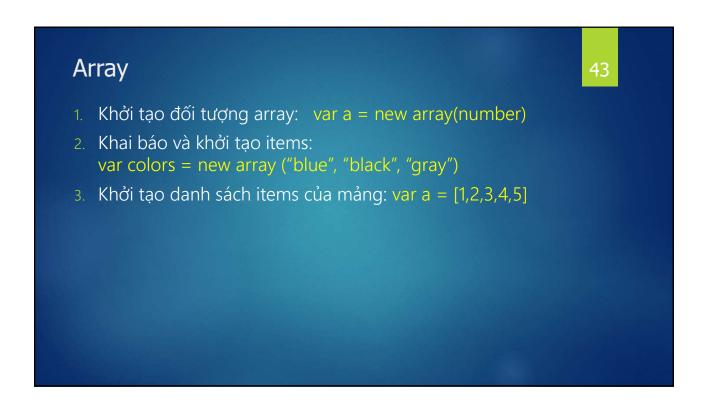
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- 1. Viết function hiển thị ngày tháng năm hiện tại, kiểm tra xem năm hiện tại có phải là năm nhuận hay không
- 2. Viết function hiển thị các ngày và thứ trong tuần hiện tại
- 3. Viết function hiển thị các ngày trong tháng hiện tại, dạng bảng có 7 cột, cột đầu là thứ 2.
- 4. Viết function hiển thị năm âm lịch của 1 năm dương lịch
- 5. Viết function hiển ngày tháng năm, giờ phút giây của các thanh phố trên thế giới: New York, London, Tokyo, Paris, Hà Nội

Math 40 document.writeln(Math.sqrt(900.0)); absolute value of x abs(x) abs(7.2) is 7.2 abs(0.0) is 0.0 abs(-5.6) is 5.6 ceil(x) rounds x to the smallest ceil(9.2) is 10.0 ceil(-9.8) is -9.0 integer not less than x cos(x) trigonometric cosine of x cos(0.0) is 1.0 (x in radians) exponential method e^{X} exp(x) exp(1.0) is 2.71828 exp(2.0) is 7.38906

Metho	d De		Examples
floor(inds x to the largest eger not greater than x	floor(9.2) is 9.0 floor(-9.8) is -10.0
log(x		eural logarithm of x se <i>e</i>)	log(2.718282) is 1.0 log(7.389056) is 2.0
max(x	, y) larg	ger value of x and y	max(2.3, 12.7) is 12.7 max(-2.3, -12.7) is -2.3
min(x	, y) sm	aller value of x and y	min(2.3, 12.7) is 2.3 min(-2.3, -12.7) is -12.7
pow(x	, у) хга	aised to power y (x ^y)	pow(2.0, 7.0) is 128.0 pow(9.0, .5) is 3.0
round(ands x to the closest eger	round(9.75) is 10 round(9.25) is 9
sin(x		gonometric sine of x in radians)	sin(0.0) is 0.0
sqrt(x) squ	are root of x	sqrt(900.0) is 30.0 sqrt(9.0) is 3.0
tan(x		gonometric tangent of x in radians)	tan(0.0) is 0.0

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Constant	Description	Value	
Math.E	Base of a natural logarithm (e).	Approximately 2.718	
Math.LN2	Natural logarithm of 2	Approximately 0.693	
Math.LN10	Natural logarithm of 10	Approximately 2.302	
Math.LOG2E	Base 2 logarithm of e	Approximately 1.442	
Math.LOG10E	Base 10 logarithm of e	Approximately 0.434	
Math.PI	π —the ratio of a circle's circumference to its diameter	Approximately 3.141592653589793	
Math.SQRT1_2	Square root of 0.5	Approximately 0.707	
Math.SQRT2	Square root of 2.0	Approximately 1.414	





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Mảng nhiều chiều

Arrays of One-Dimensional Arrays

Khai báo và khởi tạo như mảng 01 chiều

var b = [[1, 2], [3, 4]];

var array1 = [ [1, 2, 3], // first row
[4, 5, 6]]; // second row
var array2 = [ 1, 2], // first row
[3], // second row
[4, 5, 6]]; // third row

Khai báo với new:

var b;
b = new Array(2);
b[0] = new Array(5);
b[1] = new Array(3);
```

```
Array
                                           <script type = "text/javascript">
                                             ► Ví dụ:
                                                           [ 4, 5, 6 ] ]; // third row
                                             outputArray( "Values in array1 by row", array1 );
outputArray( "Values in array2 by row", array2 );
     Values in array1 by row
                                             function outputArray( heading, theArray )
     1 2 3
     4 5 6
                                                document.writeln( "<h2>" + heading + "</h2>" );" );
                                                // iterates through the set of one-dimensional arrays
                                                for ( var i in theArray )
     Values in array2 by row
                                                   // iterates through the elements of each one-dimensional
     1 2
                                                   for ( var j in theArray[ i ] )
  document.write( theArray[ i ][ j ] + " " );
     4 5 6
                                                   document.writeln( "<br />" );
                                                document.writeln( "" );
                                             } // end function outputArray
                                          </script>
```

Window ▶ Quản lý cửa sổ trình duyệt Creates a new window with the URL of the window set to url, the name set to name to refer to it in the script, and the visible features url, name, options) set by the string passed in as option. Displays a dialog box asking the user for input. The text of the prompt(prompt, default) dialog is prompt, and the default value is set to default. close() Closes the current window and deletes its object from memory. focus() This method gives focus to the window (i.e., puts the window in the foreground, on top of any other open browser windows). blur() This method takes focus away from the window (i.e., puts the window in the background). window.document This property contains the document object representing the document currently inside the window. This property contains a boolean value that is set to true if the window.closed window is closed, and false if it is not.