```
 ways accesing elements from JS.txt
1. var
fn=document.getElementById("fname").
value;
var len=fn.length;

2.var
x=document.getElementById("form1");
   var numofelements=x.length;
   var key=x.elements[0].name;
  var values=x.elements[0].value;
 var len=values.length;

3. var
fn=document.forms["form1"]["fname"].
value;
var len=fn.length;

4. var
fn=document.form1.fname.value;
//some browser is not supporting
var len=fn.length;
```

5. var leftframedoc=parent.document.getElementById("leftframe").contectDocument;
     var ln=leftframedoc.getElementById("lname").value;

JavaScript RegExp Object

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RegExp Object

A regular expression is an object that describes a pattern of characters.

Regular expressions are used to perform pattern-matching and "search-and-replace" functions on text.

Syntax

```
var patt=new RegExp(pattern,modifiers);

or more simply:

var patt=/pattern/modifiers;
```

- pattern specifies the pattern of an expression
- modifiers specify if a search should be global, case-sensitive, etc.

For a tutorial about the RegExp object, read our JavaScript RegExp Object tutorial.

Modifiers

Modifiers are used to perform case-insensitive and global searches:

Modifier	Description
i	Perform case-insensitive matching
g	Perform a global match (find all matches rather than stopping after the first match)
m	Perform multiline matching

Brackets

Brackets are used to find a range of characters:

Expression	Description
[abc]	Find any character between the brackets
[^abc]	Find any character not between the brackets
[0-9]	Find any digit from 0 to 9
[A-Z]	Find any character from uppercase A to uppercase Z
[a-z]	Find any character from lowercase a to lowercase z
[A-z]	Find any character from uppercase A to lowercase z
[adgk]	Find any character in the given set
[^adgk]	Find any character outside the given set
(red|blue|green)	Find any of the alternatives specified

Metacharacters

Metacharacters are characters with a special meaning:

Metacharacter	Description
.	Find a single character, except newline or line terminator
\w	Find a word character
\W	Find a non-word character
\d	Find a digit
\D	Find a non-digit character
\s	Find a whitespace character

\S	Find a non-whitespace character
\b	Find a match at the beginning/end of a word
\B	Find a match not at the beginning/end of a word
\0	Find a NUL character
\n	Find a new line character
\f	Find a form feed character
\r	Find a carriage return character
\t	Find a tab character
\v	Find a vertical tab character
\xxx	Find the character specified by an octal number xxx
\xdd	Find the character specified by a hexadecimal number dd
\uxxxx	Find the Unicode character specified by a hexadecimal number xxxx

Quantifiers

Quantifier	Description
n+	Matches any string that contains at least one n
n*	Matches any string that contains zero or more occurrences of n
n?	Matches any string that contains zero or one occurrences of n
n{X}	Matches any string that contains a sequence of *X* *n*'s
n{X,Y}	Matches any string that contains a sequence of X to Y *n*'s
n{X,}	Matches any string that contains a sequence of at least X *n*'s
n$	Matches any string with n at the end of it
^n	Matches any string with n at the beginning of it
?=n	Matches any string that is followed by a specific string n
?!n	Matches any string that is not followed by a specific string n

RegExp Object Properties

Property	Description
global	Specifies if the "g" modifier is set
ignoreCase	Specifies if the "i" modifier is set
lastIndex	The index at which to start the next match
multiline	Specifies if the "m" modifier is set
source	The text of the RegExp pattern

RegExp Object Methods

Method	Description
compile()	Compiles a regular expression
exec()	Tests for a match in a string. Returns the first match
test()	Tests for a match in a string. Returns true or false

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Regular Expression Examples

operator	description	sample pattern	matches	doesn't match
.	any character but newline	.	e	\n
^	beginning of string	^a	apple	banana
$	end of string	a$	banana	apple
[characters]	any characters in braces	[abcABC]	a	d
[char range]	describe range of characters	[a-zA-z]	r	9
\d	any digit	\d\d\d-\d\d\d\d	123-4567	the-thing
\b	word boundary	\bthe\b	the	theater
+	one or more occurrences of preceding character	\d+	1234	text
*	zero or more occurrences of preceding character	[a-zA-z]\d*	f16, b	9
{digit}	repeat preceding character that many times	\d{3}-\d{4}	123-4567	999-99-9999
|	or operator	apple|banana	apple, banana	peach
(pattern segment)	store results in pattern memory returned with numeric code	(^.).*/1	gig, blab (any word that starts and ends w/ same letter)	any other word