

```
<title>first javascript program</title>
<script language="javascript">
document.write( "<h2>hello from javascript!</h2>" )
</script>
</head>
<body>
hello from the body of your web page!
</body>
</html>
```

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<head>

var num;

</script>

</head>

<body>

</body> </html>

<script language="javascript">

document.write("num=" + num)

hello from the body of your web page!

num = window.prompt("enter a number", "0")

document.write("<h2>hello from javascript!</h2>")

operators

- Operators are like mathematical operators and provide ways of combining data that is stored in variables or *constants*.
- A "constant" is a way of specifying data without storing it in a variable. A *numeric* constant is like: 2 or 34.789 A *string* constant is written in double quotes, like: "hello"
- The operators that manipulate numbers are: + for addition, for subtraction, * for multiplication, / for division, and % for modulo (integer division).
- Note that the + operator is also can also be used with strings, to concatenate two strings together.
- The operators that compare two numbers are: == for testing equality, != for testing inequality, > for testing greater than, >= for testing greater than or equal to, < for testing less than, and <= for testing less than or equal to.
- parseInt() is a built-in function (i.e., it is part of javascript) that converts a string value to a numeric value. This is handy in case you want to do math on something the user enters. Typically, the values entered by users are stored in string variables and have to be converted to numeric variables before you can perform mathematical operations on them.

• The example below shows how to prompt the user for input, convert the user's input from string format to numeric format and then perform math on that number (multiply it by 2) and report the result.

| <html></html> |
|--|
| <head></head> |
| <script language="javascript"></td></tr><tr><td>var snum;</td></tr><tr><td>var num;</td></tr><tr><td>var num2</td></tr><tr><td><pre>snum = window.prompt("enter a number", "0")</pre></td></tr><tr><td><pre>num = parseInt(snum)</pre></td></tr><tr><td>num2 = num * 2</td></tr><tr><td>document.write("<h2>")</td></tr><tr><td>document.write("hello from javascript!")</td></tr><tr><td>document.write("")</td></tr><tr><td>document.write("your number =" + num)</td></tr><tr><td>document.write("")</td></tr><tr><td>document.write("2 times your number =" + num2)</td></tr><tr><td></script> |
| |
| <body></body> |
| hello from the body of your web page! |
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HTML forms

- Forms provide a means in HTML for users to enter input in different ways using elements right inside the browser window (instead of having to pop up a javascript prompt window, as we did above).
- Forms are included in the body of an HTML file and are enclosed in the following tags: <form> ... </form>
- With forms, the user enters data and then presses *enter* or clicks a *submit* button that sends the form data to be processed (depending on how the form is designed).
- This form data might be processed on the server, where the HTML file is stored, using a language like PHP.
- The form data could also be processed on the client, using javascript—which is what we'll do here.

- The example below shows how the user can enter information in a "text field" on a form and, after pressing the enter key, the data is processed by javascript and the user's input is displayed inside the form.
 - <html> <hody> hello from the body of your web page! <form name="form1"> <input type="text" name="formname"> </form> <gcript language="javascript"> var myname; myname; myname = prompt("enter your name:", "") document.form1.formname.value = "hi, " + myname </script> </body> </html>

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comments	dialog boxes
 Comments are text that is ignored by browser or javascript interpreter. in HTML, comments are enlosed in tags like this: <!-- put comment here--> In javascript, comments begin with two slashes and contine to the end of a line, like this: // put comment here It is good practice to put javascript code inside HTML comments, just in case a browser doesn't support javascript (in which case, the browser wouldn't know what to do with the javascript code and would just display the javascript code like plain text). chtml> chead> document.write("<h2>hello from javascript!</h2>") > chead> chead> document.write("<h2>hello from javascript!</h2>") chead> chead>	 A dialog box is a window that pops up and asks the user for input. We have already used the prompt() dialog box. The dialog boxes are listed below: The alert() box displays a message for the user, who only has to click on "ok" to make the box go away: alert("hello!") The confirm() box displays a message to which the user can respond with either "ok" or "cancel": okay = confirm("are you sure?"); The prompt() box asks the user for text input, as you have seen.
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hranshing statements	events

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• The main type of branching statement in javascript is if ... else.

```
<html>
         <body>
         <script language="javascript">
         <!--
         alert( "hello friend!" )
         myname = prompt( "what is your name?", "" )
         okay = confirm( "so, your name is " + myname + "?" )
         if ( okay ) {
           document.write( "hello " + myname + ", and welcome to my chocolate factory!" )
         ł
         else {
           document.write( "sorry, wrong number!" )
         ł
         //-->
         </script>
         </body>
         </html>
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<html> iteration <head> <script language="javascript"> <!-- ' function calcIt(num1, num2) { • Sometimes you want to do things multiple times. Iteration, or *looping* statements, allow var sum sum = num1 + num2 you to do this. document.form1.txtsum.value = sum } • A for loop will do something for a specified number of times. //--> </script> • The example below draws a table, based on the number of rows specified by the user. </head> <body> <form name="form1"> enter first number:
 <input type="text" name="mynum1">
 enter second number:
 <input type="text" name="mynum2">
 click this button to add them up! <input type="button" value="add'em" onclick="calcIt(Number(form1.mynum1.value), Number(form1.mynum2.value))">
 <input type="text" name="txtsum"> </form> </body> </html> cis3.5-fall2009-sklar-lec.javascript cis3.5-fall2009-sklar-lec.javascript 17

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<html></html>	
<head></head>	
<script l<="" td=""><td>inguage="javascript"></td></tr><tr><td><!</td><td></td></tr><tr><td>function</td><td><pre>iraw_table(numrows) {</pre></td></tr><tr><td>var i;</td><td></td></tr><tr><td>documen</td><td>.write("");</td></tr><tr><td>for (i</td><td>0; i<numrows; i++) {</td></tr><tr><td>docum</td><td>nt.write("");</td></tr><tr><td>docum</td><td>nt.write("row " + 1 + "");</td></tr><tr><td>docum</td><td><pre>int.write("</td></tr><tr><td>l</td><td><pre>iii:.wiite((() (i));</pre></td></tr><tr><td>documen</td><td>urite(""):</td></tr><tr><td>3</td><td>write(() babies),</td></tr><tr><td>//></td><td></td></tr><tr><td></script>	
<body></body>	
<form nam<="" td=""><td>="form1"></td></form>	="form1">
enter num	per of rows for your table:
<input td="" ty<=""/> <td>e="text" name="mynum"></td>	e="text" name="mynum">
click thi	s button to draw the table!
<input td="" ty<=""/> <td>e="button" value="make table"</td>	e="button" value="make table"
onclick="	<pre>iraw_table(Number(form1.mynum.value))"></pre>