

Programs for CIS17 - Mozilla Firefox

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Programs for CIS17 +

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Programs for CIS17 - Programming: Logic, Design and Implementation

Visual Basic (2010)	firstSp12.zip - introduction to using VB2010 FirstMath.zip - calculations basicMath.zip - calculations loopswhile120.zip - introduction to loops workareas.zip - introduction to variables userInput.7z - introduction to user input deptArray.zip - introduction to arrays NextVB.zip - two programs in this zip VBF11CIS120.zip - multiple programs projWriteText.zip - creating a file readProj.zip - reading a file
JavaScript	hello.html multiply.html multiplyans.html addnum.html addnumcont.html mathans.html ifwithif.html MAorRI.html prob2.html whileloop.html doloop.html ifwithloop.html finaltotals.html Loop comparison: Math facts while loop Math facts nested while loop Math facts do...while loop Math facts nested do...while loop Math facts for loop Math facts nested for loop Arrays: thedate.html thedate12.html thedate12another.html

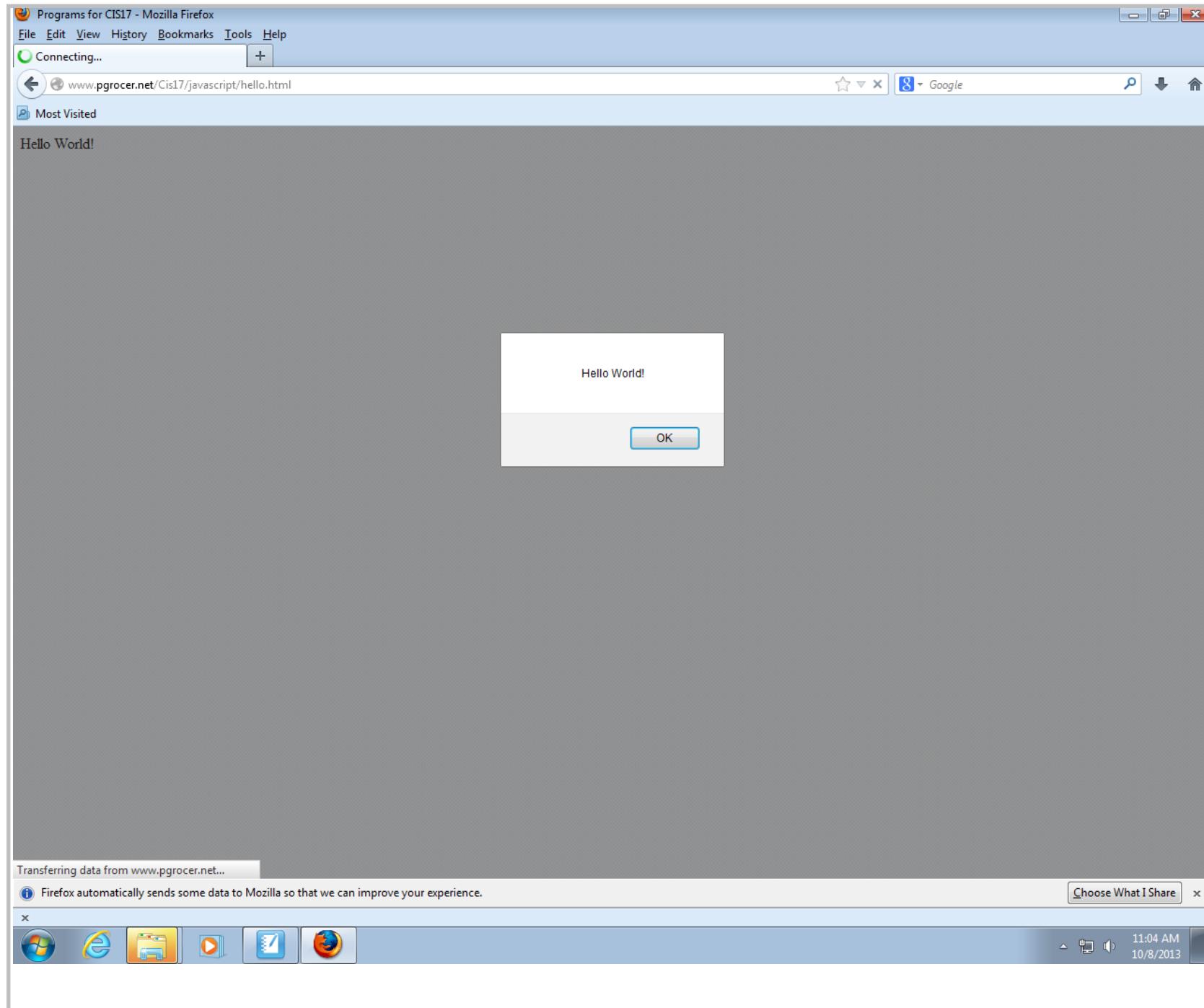
Be sure to work with these Javascript examples.

Firefox automatically sends some data to Mozilla so that we can improve your experience.

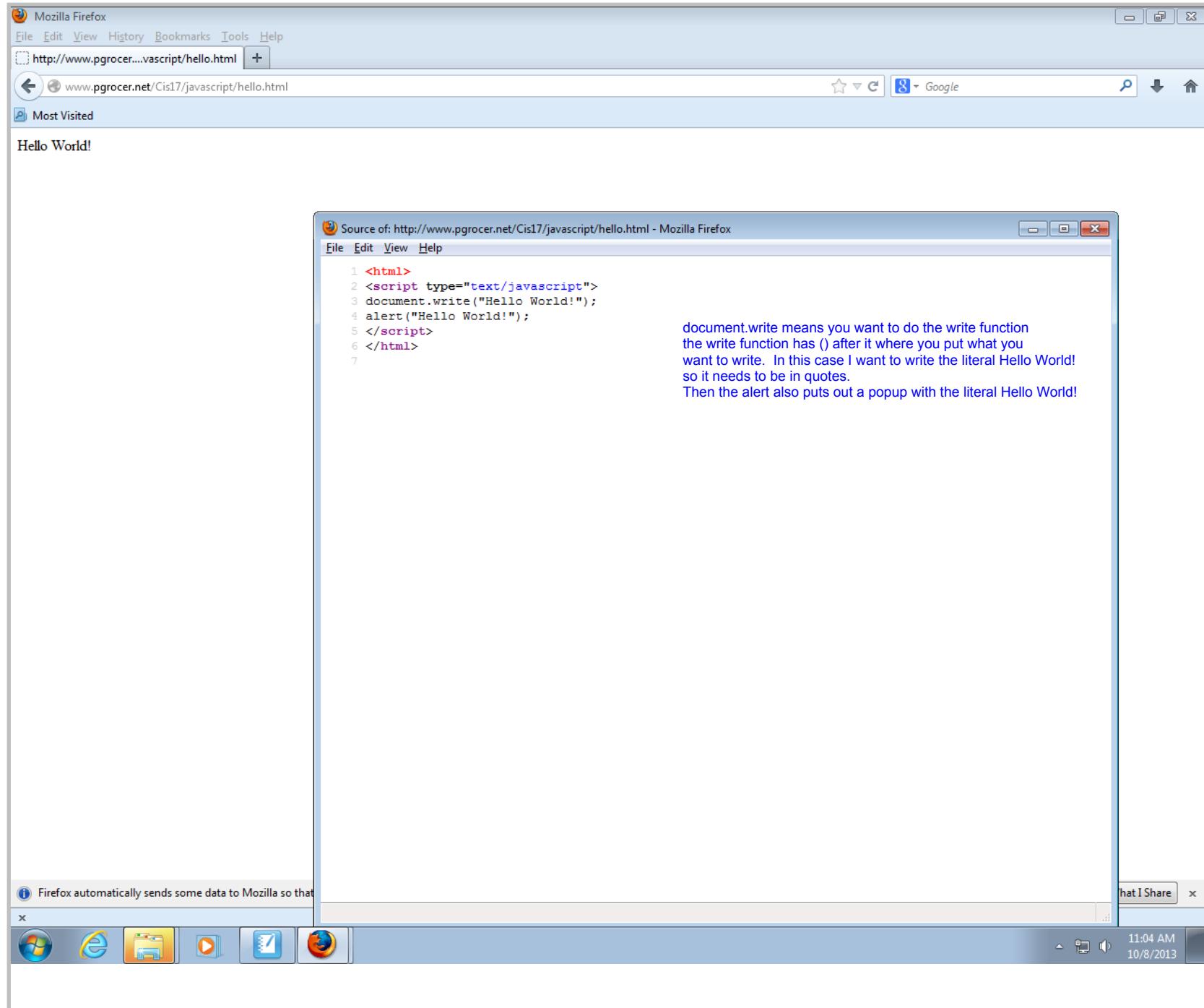
Choose What I Share

11:03 AM 10/8/2013

Windows Taskbar icons: Internet Explorer, File Explorer, Media Player, Notepad, Firefox



Title: Oct 8-11:04 AM (2 of 24)



Title: Oct 8-11:04 AM (3 of 24)

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http://www.pgrocer....vascript/hello.html +

www.pgrocer.net/Cis17/javascript/hello.html

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Hello World!

Source of: http://www.pgrocer.net/Cis17/javascript/hello.html - Mozilla Firefox

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```
1 <html>
2 <script type="text/javascript">
3 document.write("Hello World!");
4 alert("Hello World!");
5 </script>
6 </html>
7
```

white ()
alert ()

Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://www.pgrocer....cript/multiply.html +

www.pgrocer.net/Cis17/javascript/multiply.html

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30

Source of: http://www.pgrocer.net/Cis17/javascript/multiply.html - Mozilla Firefox

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```
1 <html>
2 <script type="text/javascript">
3 var ans = 0;
4 var firstnum = 0;
5 var secondnum = 0;
6 firstnum = prompt("Enter the first number",0);
7 secondnum = prompt("Enter the second number",0);
8 ans = firstnum * secondnum;
9 document.write(ans);
10 </script>
11 </html>
```

Diagram illustrating variable assignments:

- A box labeled "msg" contains a smaller box with a "0". A curved arrow points from this box to the assignment of "0" to "ans".
- A box labeled "b" contains a "0". A curved arrow points from this box to the assignment of "0" to "firstnum".
- A box labeled "0" is labeled "secondnum".
- A box labeled "ans" contains a "0".

Firefox automatically sends some data

Line 11, Col 8

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Source of: http://www.pgrocer.net/Cis17/javascript/multiply.html - Mozilla Firefox
File Edit View Help

```
1 <html>
2 <script type="text/javascript">
3 var ans = 0;
4 var firstnum = 0;
5 var secondnum = 0;
6 firstnum = prompt("Enter the first number",0);
7 secondnum = prompt("Enter the second number",0);
8 ans = firstnum * secondnum;
9 document.write(ans);
10 </script>
11 </html>
```

ans

msg

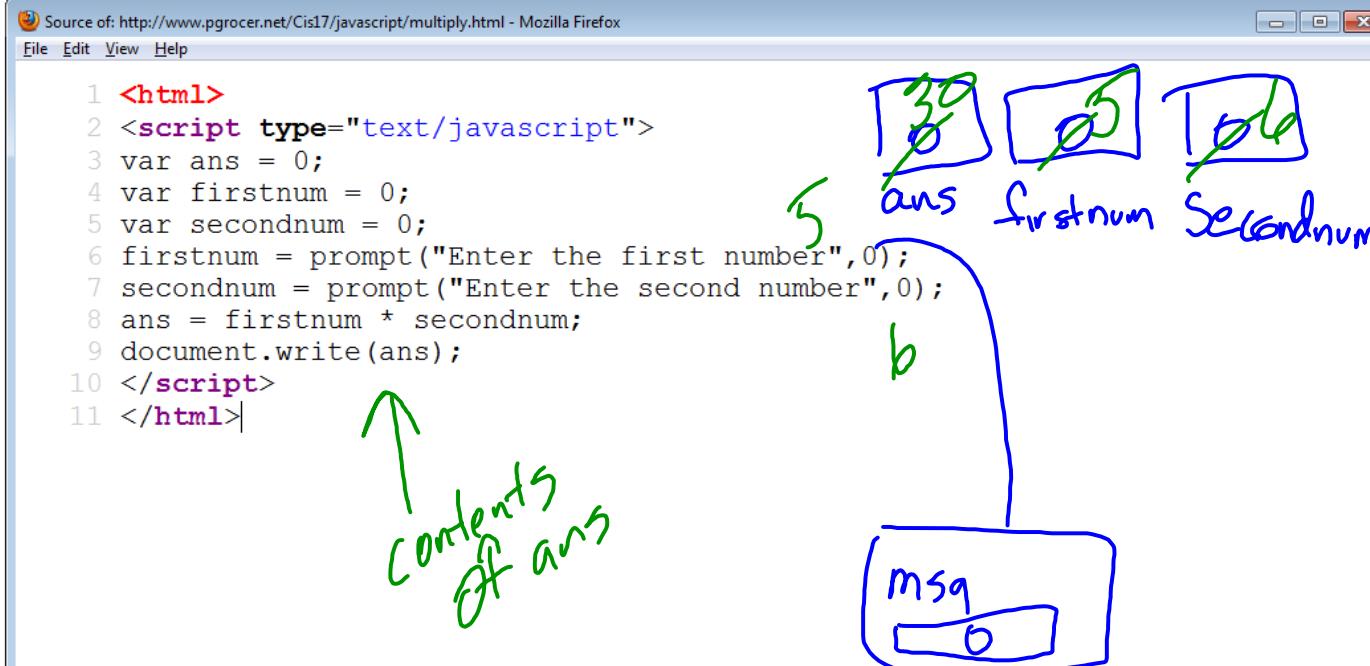
b

firstnum

Secondnum

Firefox automatically sends some data
Line 11, Col 8

That I Share

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http://www.pgrocer.net/Cis17/javascript/multiply.html +
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Source of: http://www.pgrocer.net/Cis17/javascript/multiply.html - Mozilla Firefox
File Edit View Help

```
1 <html>
2 <script type="text/javascript">
3 var ans = 0;
4 var firstnum = 0;
5 var secondnum = 0;
6 firstnum = prompt("Enter the first number",0);
7 secondnum = prompt("Enter the second number",0);
8 ans = firstnum * secondnum;
9 document.write(ans);
10 </script>
11 </html>
```

contents of ans

30

ans

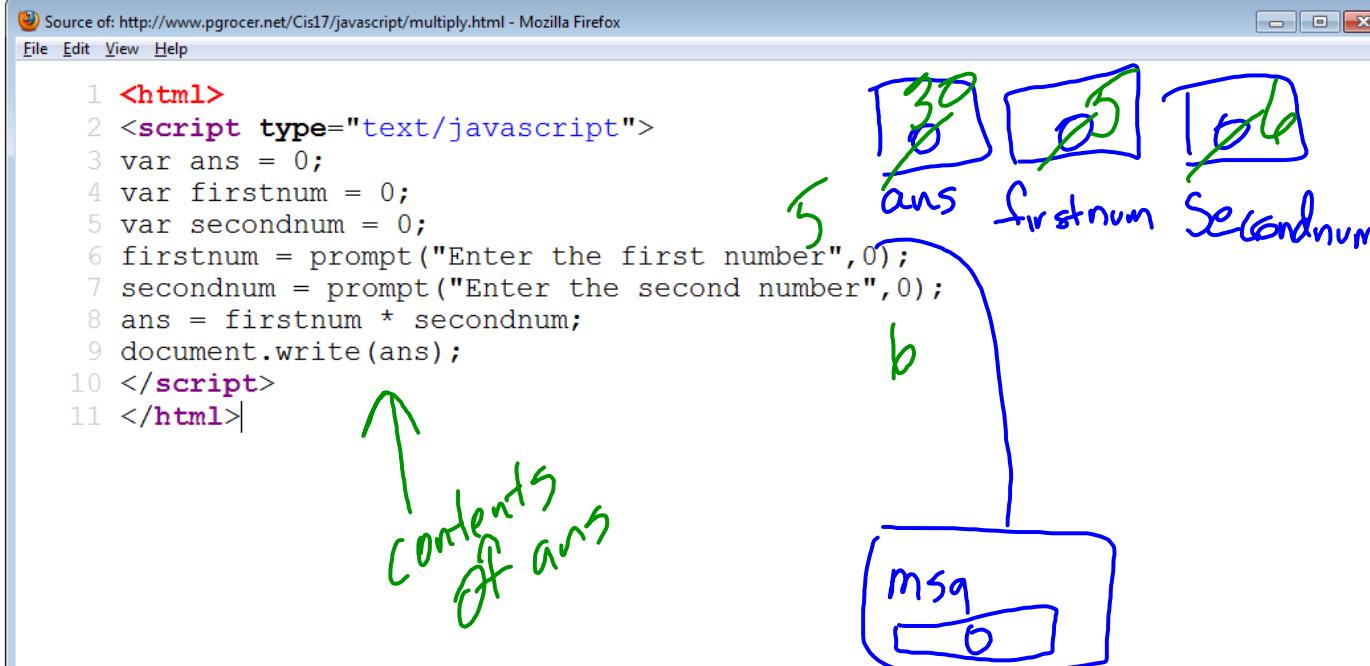
firstnum

secondnum

b

msg

0



The image shows a screenshot of a Mozilla Firefox browser window. The address bar contains the URL 'http://www.pgrocer.net/Cis17/javascript/multiply.html'. The main content area displays the source code of a JavaScript program. The code initializes variables 'ans', 'firstnum', and 'secondnum' to 0, prompts the user for two numbers, calculates their product, and writes the result to the console. Handwritten annotations explain the state of variables: 'ans' is labeled with '5' above it and 'contents of ans' written vertically below the code. 'firstnum' is labeled with '30' above it. 'secondnum' is labeled with '6' above it. A blue box labeled 'msg' contains the value '0', with a line pointing from 'ans' to it, indicating that 'ans' is passed to the message box.

Mozilla Firefox

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http://www.pgrocer...t/multiplyans.html +

www.pgrocer.net/Cis17/javascript/multiplyans.html

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The answer is 238

Source of: http://www.pgrocer.net/Cis17/javascript/multiplyans.html - Mozilla Firefox

```
1 <html>
2 <script type="text/javascript">
3 var ans = 0;
4 var firstnum = 0;
5 var secondnum = 0;
6 firstnum = prompt("Enter the first number",0);
7 secondnum = prompt("Enter the second number",0);
8 ans = firstnum * secondnum;
9 document.write("The answer is ", ans);
10 </script>
11 </html>
```

literal separator memo variable content

Firefox automatically sends some data

Line 11, Col 8

Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://www.pgrocer.net/Cis17/javascript/addnum.html +

www.pgrocer.net/Cis17/javascript/addnum.html

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The answer is 48 ←
The answer is 12

+ concatenate
add

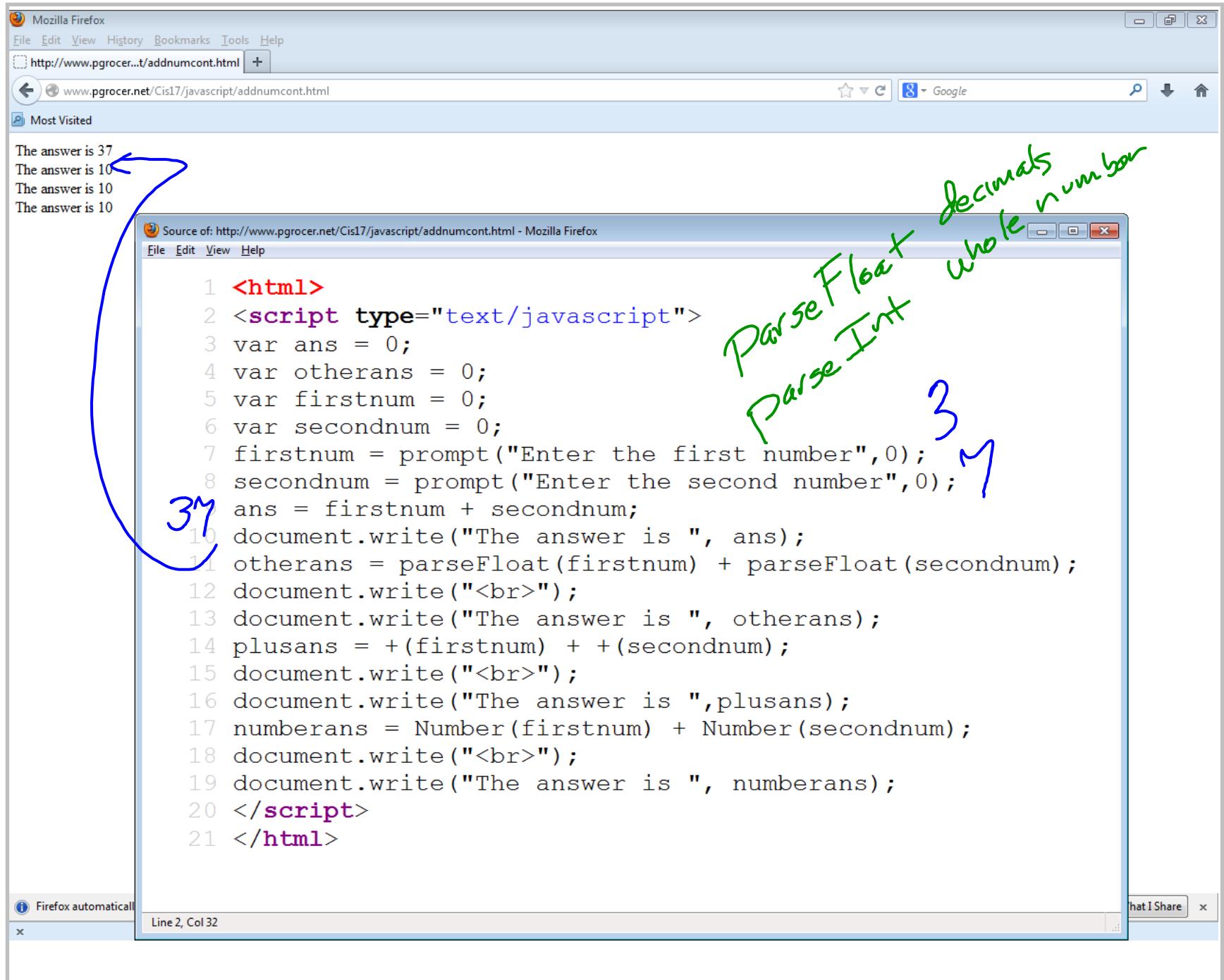
Source of: http://www.pgrocer.net/Cis17/javascript/addnum.html - Mozilla Firefox

File Edit View Help

```
1 <html>
2 <script type="text/javascript">
3 var ans = 0;
4 var otherans = 0;
5 var firstnum = 0;
6 var secondnum = 0;
7 firstnum = prompt("Enter the first number",0);
8 secondnum = prompt("Enter the second number",0);
9 ans = firstnum + secondnum;
10 document.write("The answer is ", ans);
11 otherans = parseFloat(firstnum) + parseFloat(secondnum);
12 document.write("<br>");
13 document.write("The answer is ", otherans);
14 </script>
15 </html>
```

48
ans
4
8
12
otherans

Firefox automatically Line 15, Col 8



Mozilla Firefox

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http://www.pgrocer.net/addnumcont.html +

www.pgrocer.net/Cis17/javascript/addnumcont.html

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The answer is 4.563.12
The answer is 7.68
The answer is 7.68
The answer is 7.68

Source of: http://www.pgrocer.net/Cis17/javascript/addnumcont.html - Mozilla Firefox

File Edit View Help

```
1 <html>
2 <script type="text/javascript">
3 var ans = 0;
4 var otherans = 0;
5 var firstnum = 0;
6 var secondnum = 0;
7 firstnum = prompt("Enter the first number",0);
8 secondnum = prompt("Enter the second number",0);
9 ans = firstnum + secondnum;
10 document.write("The answer is ", ans);
11 otherans = parseFloat(firstnum) + parseFloat(secondnum);
12 document.write("<br>");
13 document.write("The answer is ", otherans);
14 plusans = +(firstnum) + +(secondnum);
15 document.write("<br>");
16 document.write("The answer is ",plusans);
17 numberans = Number(firstnum) + Number(secondnum);
18 document.write("<br>");
19 document.write("The answer is ", numberans);
20 </script>
21 </html>
```

Alternative ways to assure that a field has been converted to numeric is possible so the + will result in an ADD.

Click here to restore ink.

Firefox automatically

11:29 AM 10/8/2013

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File Edit View History Bookmarks Tools Help
http://www.pgroc...cript/mathans.html +
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Most Visited
The answer is 30

Source of: http://www.pgroc...net/Cis17/javascript/mathans.html - Mozilla Firefox
File Edit View Help

```
1 <html>
2 <script type="text/javascript">
3 var ans = 0;
4 var firstnum = 0;
5 var secondnum = 0;
6 var whattodo;
7 firstnum = prompt("Enter the first number",0);
8 secondnum = prompt("Enter the second number",0);
9 whattodo = prompt("Enter * or /","");
10 if (wattodo == "*")
11 {
12     ans = firstnum * secondnum;
13 }
14 else
15 {
16     ans = firstnum / secondnum;
17 }
18 document.write("The answer is ", ans);
19 </script>
20 </html>
```

In this program, I prompted the user for two numbers and then prompted whether they wanted to multiply or divide.
Next I will use an IF to determine which to do.

The flowchart illustrates the execution flow of the script:

- A decision diamond labeled "wattodo" branches into:
 - If "wattodo" is "*", it leads to a process box labeled "ans = firstnum * secondnum".
 - If "wattodo" is not "*", it leads to a process box labeled "ans = firstnum / secondnum".
- Both paths converge at a final process box labeled "ans = firstnum / secondnum".

Annotations in the flowchart include:

- A red "else" label above the "wattodo" diamond.
- A green brace under the "wattodo" condition labeled "N".
- A green brace under the multiplication path labeled "ans = firstnum * secondnum".
- A green brace under the division path labeled "ans = firstnum / secondnum".
- A green brace under the final assignment path labeled "ans = firstnum / secondnum".
- A green question mark "?" is placed near the final assignment box.

Line 4, Col 18

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http://www.pgrocer...cript/mathans.html +
www.pgrocer.net/Cis17/javascript/mathans.html g Google

The answer is 30

Source of: http://www.pgrocer.net/Cis17/javascript/mathans.html - Mozilla Firefox
File Edit View Help

```
1 <html>
2 <script type="text/javascript">
3 var ans = 0;
4 var firstnum = 0;
5 var secondnum = 0;
6 var whattodo;
7 firstnum = prompt("Enter the first number",0);
8 secondnum = prompt("Enter the second number",0);
9 whattodo = prompt("Enter * or /","");
10 if (wattodo == "*")
11 {
12     ans = firstnum * secondnum;
13 }
14 else
15 {
16     ans = firstnum / secondnum;
17 }
18 document.write("The answer is ", ans);
19 </script>
20 </html>
```

Line 4, Col 18

The diagram illustrates the execution flow of the JavaScript code. It starts with two parallel paths: one for multiplication (indicated by an asterisk *) and one for division (indicated by a slash /). Both paths lead to a common assignment point where the variable 'ans' is updated. The original code uses 'wattodo' to determine which path to follow, but the handwritten notes show both paths being executed simultaneously, which is a common mistake in understanding conditional statements.

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The answer is 30

Source of: http://www.pgrocer.net/Cis17/javascript/mathans.html - Mozilla Firefox
File Edit View Help

```
1 <html>
2 <script type="text/javascript">
3 var ans = 0;
4 var firstnum = 0;
5 var secondnum = 0;
6 var whattodo;
7 firstnum = prompt("Enter the first number",0);
8 secondnum = prompt("Enter the second number",0);
9 whattodo = prompt("Enter * or /","");
10 if (wattodo == "*")
11 {
12     ans = firstnum * secondnum;
13 }
14 else
15 {
16     ans = firstnum / secondnum;
17 }
18 document.write("The answer is ", ans);
19 </script>
20 </html>
```

== compare for equal
= assign

else

ans = firstnum
secondnum

ans = firstnum / secondnum

Line 4, Col 18

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http://www.pgrocer....cript/mathans.html +

www.parcer.net/Cic17/javascript/mathans.html

Untitled - Notepad

The answer

```
<html>
<script type="text/javascript">
var ans = 0;
var firstnum = 0;
var secondnum = 0;
var whattodo;
firstnum = prompt("Enter the first number",0);
secondnum = prompt("Enter the second number",0);
wattodo = prompt("Enter * or /","");
if (wattodo == "*")
{
    ans = firstnum * secondnum;
}
else
{
    if (wattodo == "/")
    {
        ans = firstnum / secondnum;
    }
    else
    {
        ans = 0; When I go on to add the ability to add or subtract. The first
               if to test for add will go here.
    }
}
document.write("The answer is ", ans);
</script>
</html>
```



The answer is

```

<html>
<script type="text/javascript">
var ans = 0;
var firstnum = 0;
var secondnum = 0;
var whattodo;
firstnum = prompt("Enter the first number",0);
secondnum = prompt("Enter the second number",0);
wattodo = prompt("Enter * or /","");
if (wattodo == "*")
{
    ans = firstnum * secondnum;
}
else
{
    if (wattodo == "/")
    {
        ans = firstnum / secondnum;
    }
    else
    {
        ans = 0;
    }
}
document.write("The answer is ", ans);
</script>
</html>

```

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File Edit View History Bookmarks Tools Help

http://www.pgrocer...cript/mathans.html

www.pgrocer.net/Cir17/izvaccin/mahtanc.html

Untitled - Notepad

The answer

```
<html>
<script type="text/javascript">
var ans = 0;
var firstnum = 0;
var secondnum = 0;
var whattodo;
firstnum = prompt("Enter the first number",0);
secondnum = prompt("Enter the second number",0);
wattodo = prompt("Enter * or /","");
if (wattodo == "*")
{
    ans = firstnum * secondnum;
}
else
{
    if (wattodo == "/")
    {
        ans = firstnum / secondnum;
    }
    else
    {
        ans = 0;
    }
}
document.write("The answer is ", ans);
</script>
</html>
```

N
X
N
mult
Div
add
Subt
Ans
N
X
N
X
N
X
Ans

IVIOZILLA Firefox

File Edit View Bookmarks Tools Help

http://www.pgrocer...cript/mathans.html +

www.pgrocer.net/Cis17/javascript/mathans.html

Untitled - Notepad

The answer

```
<html>
<script type="text/javascript">
var ans = 0;
var firstnum = 0;
var secondnum = 0;
var whattodo;
firstnum = prompt("Enter the first number",0);
secondnum = prompt("Enter the second number",0);
wattodo = prompt("Enter * or /","");
if (wattodo == "*")
{
    ans = firstnum * secondnum;
}
else
{
    if (wattodo == "/")
    {
        ans = firstnum / secondnum;
    }
    else
    {
        ans = 0;
    }
}
document.write("The answer is ", ans);
</script>
</html>
```

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```
<html>
<script type="text/javascript">
var ans = 0;
var firstnum = 0;
var secondnum = 0;
var whattodo;
firstnum = prompt("Enter the first number",0);
secondnum = prompt("Enter the second number",0);
wattodo = prompt("Enter * or /","");
if (wattodo == "*")
{
    ans = firstnum * secondnum;
}
else
{
    if (wattodo == "/")
    {
        ans = firstnum / secondnum;
    }
    else
    {
        if (wattodo == "+")
        {
            ans = parseFloat(firstnum) + parseFloat(secondnum);
        }
        else
        {
            if (wattodo == "-")          Note, I did a copy and paste - I do not need parseFloat for a subtract.
            {
                ans = parseFloat(firstnum) - parseFloat(secondnum);
            }
            else
            {
                ans = 0;
            }
        }
    }
}
document.write("The answer is ", ans);
```

Firefox automatically sends some data to Mozilla so that we can improve your experience.

Choose What I Share

```
<html>
<script type="text/javascript">
var ans = 0;
var firstnum = 0;
var secondnum = 0;
var whattodo;
firstnum = prompt("Enter the first number",0);
secondnum = prompt("Enter the second number",0);
wattodo = prompt("Enter * or /","");
if (wattodo == "*")
{
    ans = firstnum * secondnum;
}
else
{
    if (wattodo == "/")
    {
        ans = firstnum / secondnum;
    }
    else
    {
        if (wattodo == "+")
        {
            ans = parseFloat(firstnum) + parseFloat(secondnum);
        }
        else
        {
            if (wattodo == "-")      Again, I only need parseFloat with an
                                    Add. I do not need it with a subtract.
            {
                ans = parseFloat(firstnum) - parseFloat(secondnum);
            }
            else
            {
                ans = 0;
            }
        }
    }
}
document.write("The answer is ", ans);
```

A screenshot of a Firefox browser window showing a Notepad file with a JavaScript script. The script prompts the user for two numbers and an operation (*, /, +, -), then performs the calculation and writes the result to the page. Handwritten blue annotations and arrows are present in the code:

- An arrow points from the word "ans" in the first assignment statement to the variable declaration "var ans = 0;".
- An arrow points from the assignment "ans = firstnum * secondnum;" to the multiplication operator "*".
- An arrow points from the assignment "ans = firstnum / secondnum;" to the division operator "/".
- An arrow points from the assignment "ans = parseFloat(firstnum) + parseFloat(secondnum);" to the addition operator "+".
- An annotation "Again, I only need parseFloat with an Add. I do not need it with a subtract." is placed next to the subtraction assignment "ans = parseFloat(firstnum) - parseFloat(secondnum);".
- An arrow points from the assignment "ans = 0;" to the closing brace of the final else block.

Mozilla Firefox

File Edit View History Back file:///G:/addsubmultdiv.html Mozilla Firefox

Most Visited

The answer is 0

Source of file:///G:/addsubmultdiv.html - Mozilla Firefox

```
1 <html>
2 <script type="text/javascript">
3 var ans = 0;
4 var firstnum = 0;
5 var secondnum = 0;
6 var whattodo;
7 firstnum = prompt("Enter the first number",0);
8 secondnum = prompt("Enter the second number",0);
9 whattodo = prompt("Enter * or / or + or -","");
10 if (wattodo == "*")
11 {
12     ans = firstnum * secondnum;
13 }
14 else
15 {
16     if (wattodo == "/")
17     {
18         ans = firstnum / secondnum;
19     }
20     else
21     {
22         if (wattodo == "+")
23         {
24             ans = parseFloat(firstnum) + parseFloat(secondnum);
25         }
26         else
27         {
28             if (wattodo == "-")
29             {
30                 ans = parseFloat(firstnum) - parseFloat(secondnum);
31             }
32             else
33             {
34                 ans = 0;
35             }
36         }
37     }
38 }
39
40 document.write("The answer is ", ans);
41 </script>
42 </html>
```

Firefox automatically serves file:///G:/addsubmultdiv.html

Line 12, Col 31

Share

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10/8/2013



The image shows a screenshot of a Windows operating system. In the foreground, there is a Mozilla Firefox window displaying the source code of a JavaScript program. The code performs arithmetic operations based on user input for two numbers and an operator (*, /, +, -). The result is then displayed using the document.write() method. The Firefox window has a standard title bar with file, edit, view, help options, and a toolbar with download, home, and share buttons. Below the window is the Windows taskbar, which includes icons for the Start button, Internet Explorer, File Explorer, and other system icons. The status bar at the bottom of the screen shows the date and time (12:15 PM, 10/8/2013).

Decision - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Decision

cisweb.bristolcc.edu

Most Visited

The answer is 30

Source of: http://cisweb.bristolcc.edu/~pgrocer/CIS122S13/introJS/mathdecision5.html - Mozilla Firefox

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <title>Decision</title>
5 <meta charset="utf-8">
6 </head>
7 <body>
8 <script type="text/javascript">
9 var ans = 0;
10 var firstnum = 0;
11 var secondnum = 0;
12 var whattodo;
13 firstnum = prompt("Enter the first number",0);
14 secondnum = prompt("Enter the second number",0);
15 whattodo = prompt("Enter * or /","");
16 if (wattodo == "*")
17 {
18     ans = firstnum * secondnum;
19 }
20 else
21 {
22     ans = firstnum / secondnum;
23 }
24 document.write("The answer is ", ans);
25 </script>
26 </body>
27 </html>
```

Firefox automatically served

Line 2, Col 7

Share X

12:17 PM
10/8/2013



Programs

addsubmultdiv.html - Notepad

File Edit Format View Help

JavaScr

Most V

Beginning example

Continuing and dec

```
<html>
<script type="text/javascript">
var ans = 0;
var firstnum = 0;
var secondnum = 0;
var whattodo;
firstnum = prompt("Enter the first number",0);
secondnum = prompt("Enter the second number",0);
wattodo = prompt("Enter * or / or + or -","");
if (wattodo == "*")
{
    ans = firstnum * secondnum;
}
else
{
    if (wattodo == "/")
    {
        ans = firstnum / secondnum;
    }
    else
    {
        if (wattodo == "+")
        {
            ans = parseFloat(firstnum) + parseFloat(secondnum);
        }
        else
        {
            if (wattodo == "-")
            {
                ans = parseFloat(firstnum) - parseFloat(secondnum);
            }
            else
            {
                ans = 0;
            }
        }
    }
}
document.write("The answer is ", ans);
```

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Source

File Edit Format View Help

```
1 <html>
2 <script type="text/javascript">
3 var ans = 0;
4 var firstnum = 0;
5 var secondnum = 0;
6 var whattodo;
7 firstnum = prompt("Enter the first number",0);
8 secondnum = prompt("Enter the second number",0);
9 whattodo = prompt("Enter * or / or + or - ","");
10 if (wattodo == "*")
11 {
12     ans = firstnum * secondnum;
13 }
14 else
15 {
16     if (wattodo == "/")
17     {
18         ans = firstnum / secondnum;
19     }
20     else
21     {
22         if (wattodo == "+")
23         {
24             ans = parseFloat(firstnum) + parseFloat(secondnum);
25         }
26         else
27         {
28             if (wattodo == "-")      Correction.
29             {
30                 ans = firstnum- secondnum;
31             }
32             else
33             {
34                 ans = 0;
35             }
36         }
37     }
38 }
39 document.write("The answer is ", ans);
40 </script>
41 </html>
```

Line 6, Col 1

1:47 PM
10/8/2013