

Programs for CIS17 - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Programs for CIS17

www.pgrocer.net/Cis17/cis17programs.html

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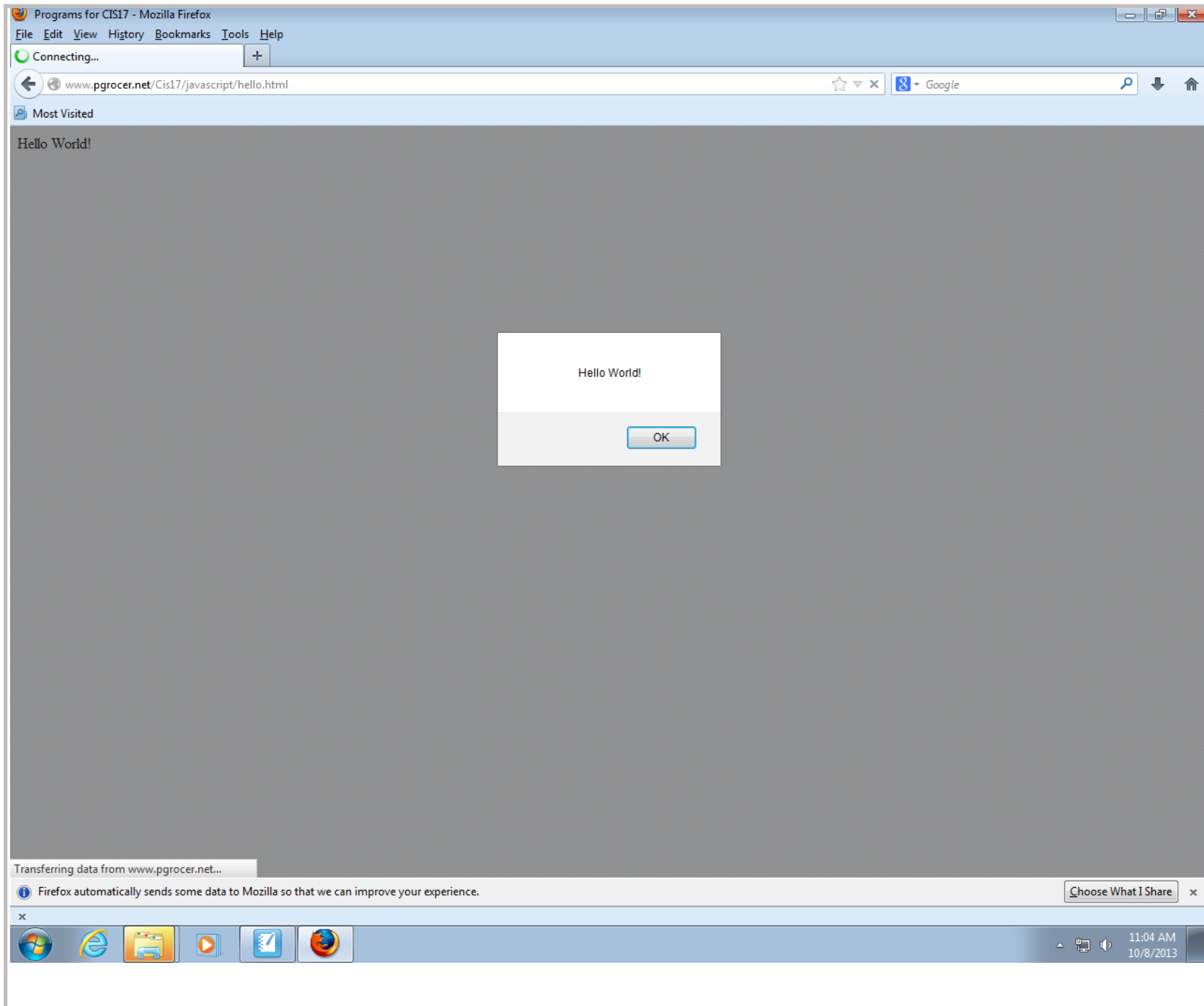
Programs for CIS17 - Programming: Logic, Design and Implementation

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: thedata.html thedata12.html thedata12another.html comparativ1.html Search using JavaScript

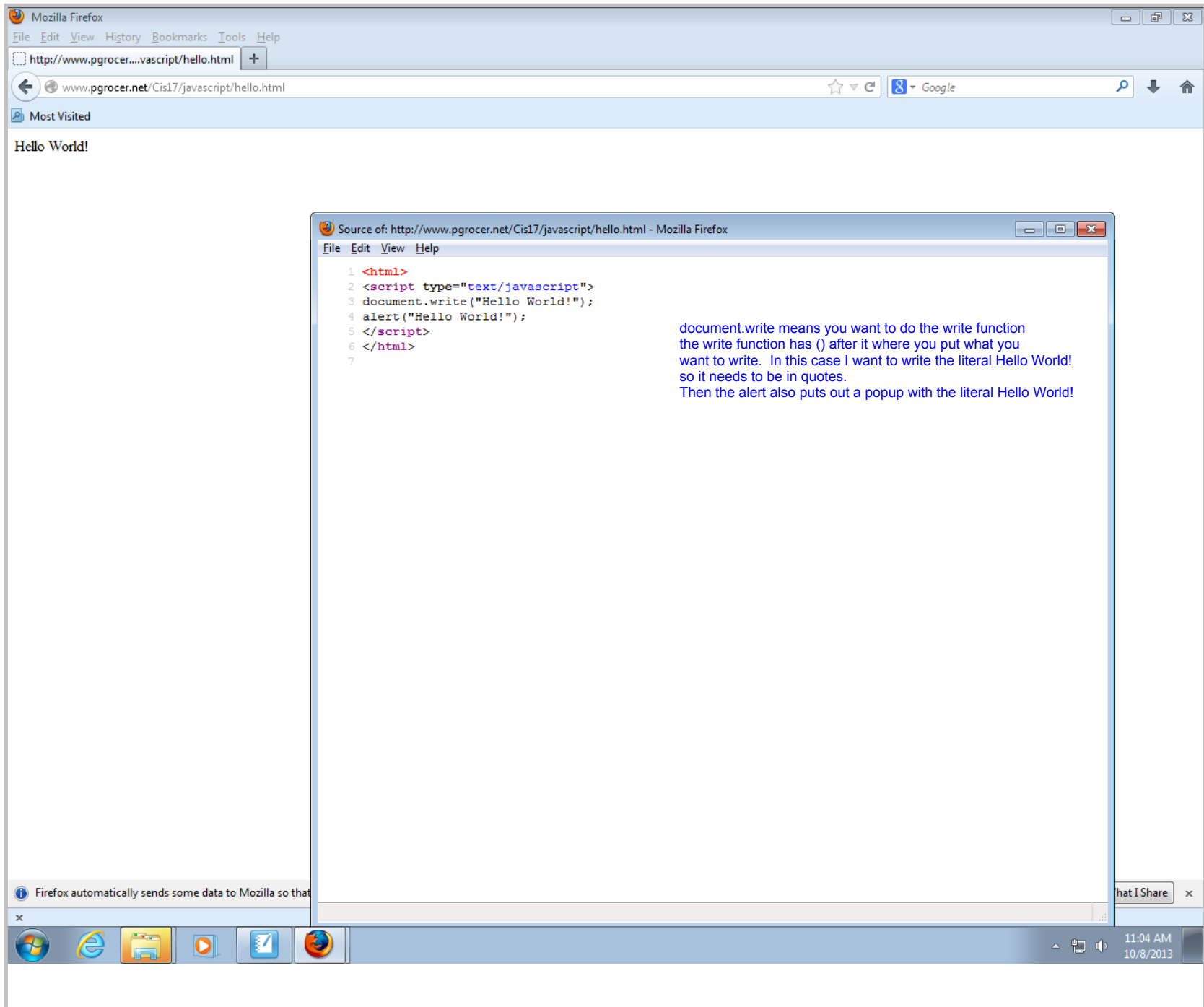
Be sure to work with these Javascript examples.

Firefox automatically sends some data to Mozilla so that we can improve your experience. Choose What I Share

11:03 AM 10/8/2013



Title: Oct 8-11:04 AM (2 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

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

Write ()
alert ()

Mozilla Firefox

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

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

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30

```
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>
```

msg 0

ans 0

firstnum 0

secondnum 0

Firefox automatically sends some data to Google Analytics. [What I Share](#)

Line 11, Col 8

Mozilla Firefox

File Edit View History Bookmarks Tools Help

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

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

Most Visited

30

```
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

0

firstnum

secondnum

Firefox automatically sends some data to the page. [Learn more](#)

Line 11, Col 8

hat I Share x

Mozilla Firefox

File Edit View History Bookmarks Tools Help

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

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

Most Visited

30

```
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>
```

Handwritten annotations:

- Three boxes containing the numbers 30, 5, and 10, labeled *ans*, *firstnum*, and *secondnum* respectively. A green arrow points from the *ans* box to the *document.write(ans);* line in the code.
- A box containing the number 0, labeled *msg*, with a blue arrow pointing from the *document.write(ans);* line to it.
- A green arrow pointing from the *document.write(ans);* line to the text *contents of ans*.

Mozilla Firefox

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http://www.pgrocer...t/multiplies.html

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

Most Visited

The answer is 238

Source of: http://www.pgrocer.net/Cis17/javascript/multiplies.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

memory variable content

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Line 11, Col 8

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File Edit View History Bookmarks Tools Help

http://www.pgrocer...script/addnum.html

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

Most Visited

The answer is 48
The answer is 12

+ concatenate
add

```
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 automaticall

Line 15, Col 8

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File Edit View History Bookmarks Tools Help

http://www.pgrocer...t/addnumcont.html

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

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The answer is 37
The answer is 10
The answer is 10
The answer is 10

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

```
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>
```

Parse Float + decimals
Parse Int whole number

37

3 7

Firefox automatically

Line 2, Col 32

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http://www.pgrocer...t/addnumcont.html

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

Most Visited

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 link.

Firefox automatically

11:29 AM
10/8/2013

Source of: http://www.pgrocer.net/Cis17/javascript/mathans.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 /","");
10 if (whattodo == "*")
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.

Line 4, Col 18

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

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

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The answer is 30

Source of: http://www.pgrocer.net/Cis17/javascript/mathans.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 /","");
10 if (whattodo == "*")
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

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

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

Most Visited

The answer is 30

Source of: http://www.pgrocer.net/Cis17/javascript/mathans.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 /","");
10 if (whattodo == "*")
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

Line 4, Col 18

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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);
whattodo = prompt("Enter * or /", "");
if (whattodo == "*")
{
ans = firstnum * secondnum;
}
else
{
if (whattodo == "/")
{
ans = firstnum / secondnum;
}
else
{
ans = 0;
}
}
document.write("The answer is ", ans);
</script>
</html>
```

When I go on to add the ability to add or subtract. The first if to test for add will go here.

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11:44 AM 10/8/2013

Mozilla Firefox

File Edit View History Bookmarks Tools Help

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

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

Most Visited

Untitled - Notepad

File Edit Format View Help

```
<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);
whattodo = prompt("Enter * or /","");
if (whattodo == "*")
{
ans = firstnum * secondnum;
}
else
{
if (whattodo == "/")
{
ans = firstnum / secondnum;
}
else
{
ans = 0;
}
}
document.write("The answer is ", ans);
</script>
</html>
```

The answer

T

F

else

else

ans = 0

divide

mult

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Mozilla Firefox

File Edit View History Bookmarks Tools Help

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

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

Untitled - Notepad

File Edit Format View Help

```
<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);
whattodo = prompt("Enter * or /","");
if (whattodo == "*")
{
ans = firstnum * secondnum;
}
else
{
if (whattodo == "/")
{
ans = firstnum / secondnum;
}
else
{
ans = 0;
}
}
document.write("The answer is ", ans);
</script>
</html>
```

The answer is

Firefox automatically sends some data to Mozilla so that we can improve your experience. Choose What I Share x

Untitled - Notepad

```
File Edit Format View Help
```

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);
whattodo = prompt("Enter * or /","");
if (whattodo == "*")
{
ans = firstnum * secondnum;
}
else
{
if (whattodo == "/")
{
ans = firstnum / secondnum;
}
else
{
ans = 0;
}
}
document.write("The answer is ", ans);
</script>
</html>
```

```
graph TD
    Start(( )) --> Op1{ }
    Op1 -- Y --> Mult[mult]
    Op1 -- N --> Op2{ / }
    Op2 -- Y --> Div[Div]
    Op2 -- N --> Op3{ + }
    Op3 -- Y --> Add[add]
    Op3 -- N --> Op4{ - }
    Op4 -- Y --> Subt[Subt]
    Op4 -- N --> Ans0[ans 0]
    Mult --> End(( ))
    Div --> End
    Add --> End
    Subt --> End
    Ans0 --> End
```

Firefox automatically sends some data to Mozilla so that we can improve your experience. Choose What I Share x

The screenshot shows a Mozilla browser window with a Notepad editor open. The Notepad editor contains the following JavaScript code:

```
<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);
whattodo = prompt("Enter * or /","");
if (whattodo == "*")
{
ans = firstnum * secondnum;
}
else
{
if (whattodo == "/")
{
ans = firstnum / secondnum;
}
else
{
if (whattodo == "+")
{
ans = parseFloat(firstnum) + parseFloat(secondnum);
}
else
{
if (whattodo == "-")
{
ans = parseFloat(firstnum) - parseFloat(secondnum);
}
else
{
ans = 0;
}
}
}
}
}
document.write("The answer is ", ans);
```

Note, I did a copy and paste - I do not need parseFloat for a subtract.

At the bottom of the browser window, there is a notification: "Firefox automatically sends some data to Mozilla so that we can improve your experience." and a "Choose What I Share" button.

The screenshot shows a Mozilla browser window with an "Untitled - Notepad" editor. The code in the notepad is as follows:

```
<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);
whattodo = prompt("Enter * or /","");
if (whattodo == "*")
{
ans = firstnum * secondnum;
}
else
{
if (whattodo == "/")
{
ans = firstnum / secondnum;
}
else
{
if (whattodo == "+")
{
ans = parseFloat(firstnum) + parseFloat(secondnum);
}
else
{
if (whattodo == "-")
{
ans = parseFloat(firstnum) - parseFloat(secondnum);
}
else
{
ans = 0;
}
}
}
}
}
document.write("The answer is ", ans);
```

Blue annotations include curly braces grouping the arithmetic operations and a note: "Again, I only need parseFloat with an Add. I do not need it with a subtract."

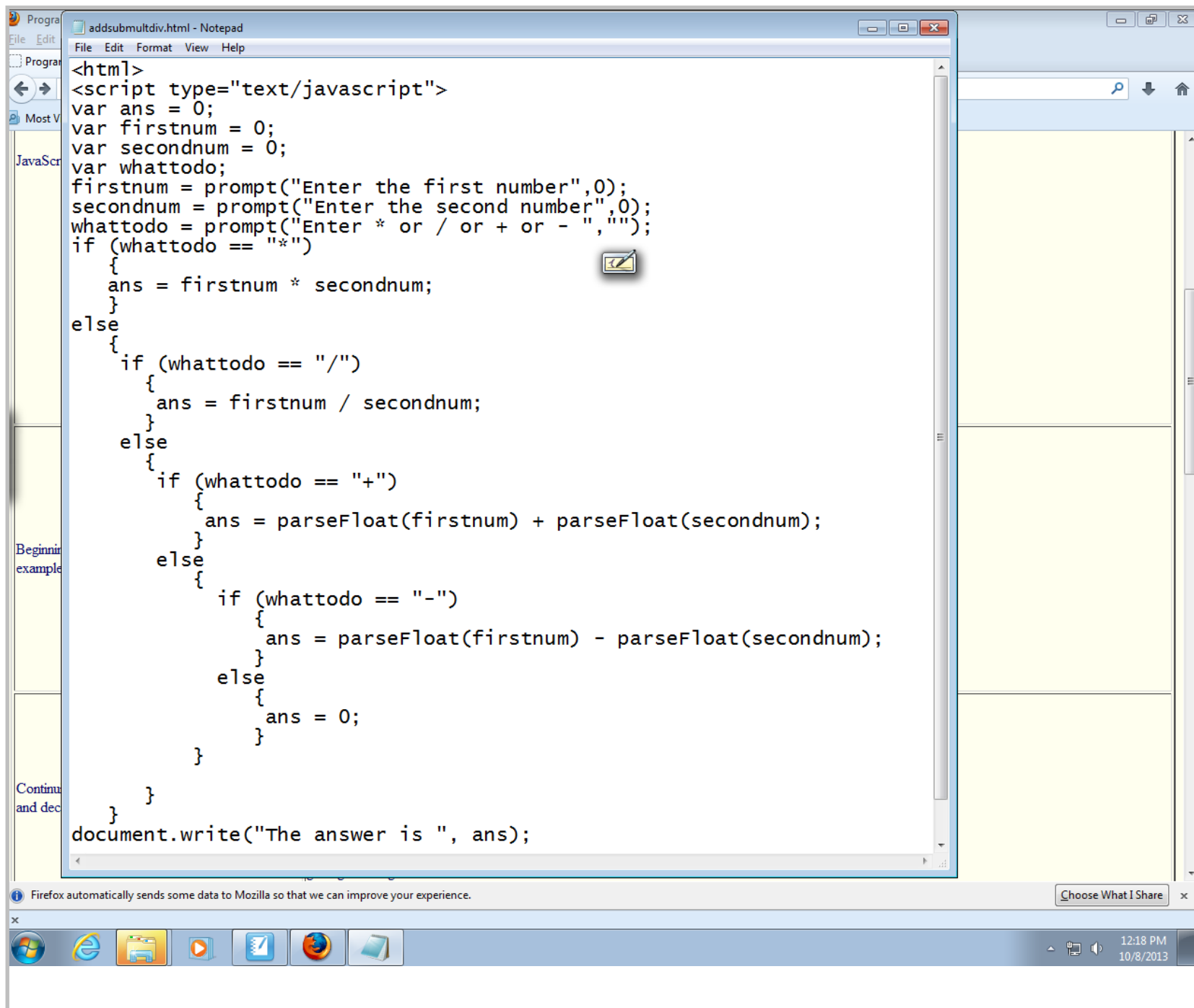
Source of: file:///G:/addsubmultdiv.html - Mozilla Firefox

```
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 (whattodo == "*")
11 {
12     ans = firstnum * secondnum;
13 }
14 else
15 {
16     if (whattodo == "/")
17     {
18         ans = firstnum / secondnum;
19     }
20     else
21     {
22         if (whattodo == "+")
23         {
24             ans = parseFloat(firstnum) + parseFloat(secondnum);
25         }
26         else
27         {
28             if (whattodo == "-")
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 ser... Line 12, Col 31

12:15 PM 10/8/2013

```
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 (whattodo == "*")
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>
```



The image shows a Notepad window titled "addsubmultdiv.html - Notepad" with the following JavaScript code:

```
<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);
whattodo = prompt("Enter * or / or + or - ", "");
if (whattodo == "*")
{
    ans = firstnum * secondnum;
}
else
{
    if (whattodo == "/")
    {
        ans = firstnum / secondnum;
    }
    else
    {
        if (whattodo == "+")
        {
            ans = parseFloat(firstnum) + parseFloat(secondnum);
        }
        else
        {
            if (whattodo == "-")
            {
                ans = parseFloat(firstnum) - parseFloat(secondnum);
            }
            else
            {
                ans = 0;
            }
        }
    }
}
document.write("The answer is ", ans);
```

The code implements a simple calculator with the following logic:

- Initializes `ans` to 0.
- Prompts the user for the first number (`firstnum`).
- Prompts the user for the second number (`secondnum`).
- Prompts the user for an operator (`whattodo`).
- Performs the operation based on the operator:
 - For `*`: `ans = firstnum * secondnum;`
 - For `/`: `ans = firstnum / secondnum;`
 - For `+`: `ans = parseFloat(firstnum) + parseFloat(secondnum);`
 - For `-`: `ans = parseFloat(firstnum) - parseFloat(secondnum);`
 - For any other operator: `ans = 0;`
- Displays the result: `document.write("The answer is ", ans);`

```
Source
addsubmultdiv.html - Notepad
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 (whattodo == "*")
11 {
12     ans = firstnum * secondnum;
13 }
14 else
15 {
16     if (whattodo == "/")
17     {
18         ans = firstnum / secondnum;
19     }
20     else
21     {
22         if (whattodo == "+")
23         {
24             ans = parseFloat(firstnum) + parseFloat(secondnum);
25         }
26         else
27         {
28             if (whattodo == "-")          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>
```