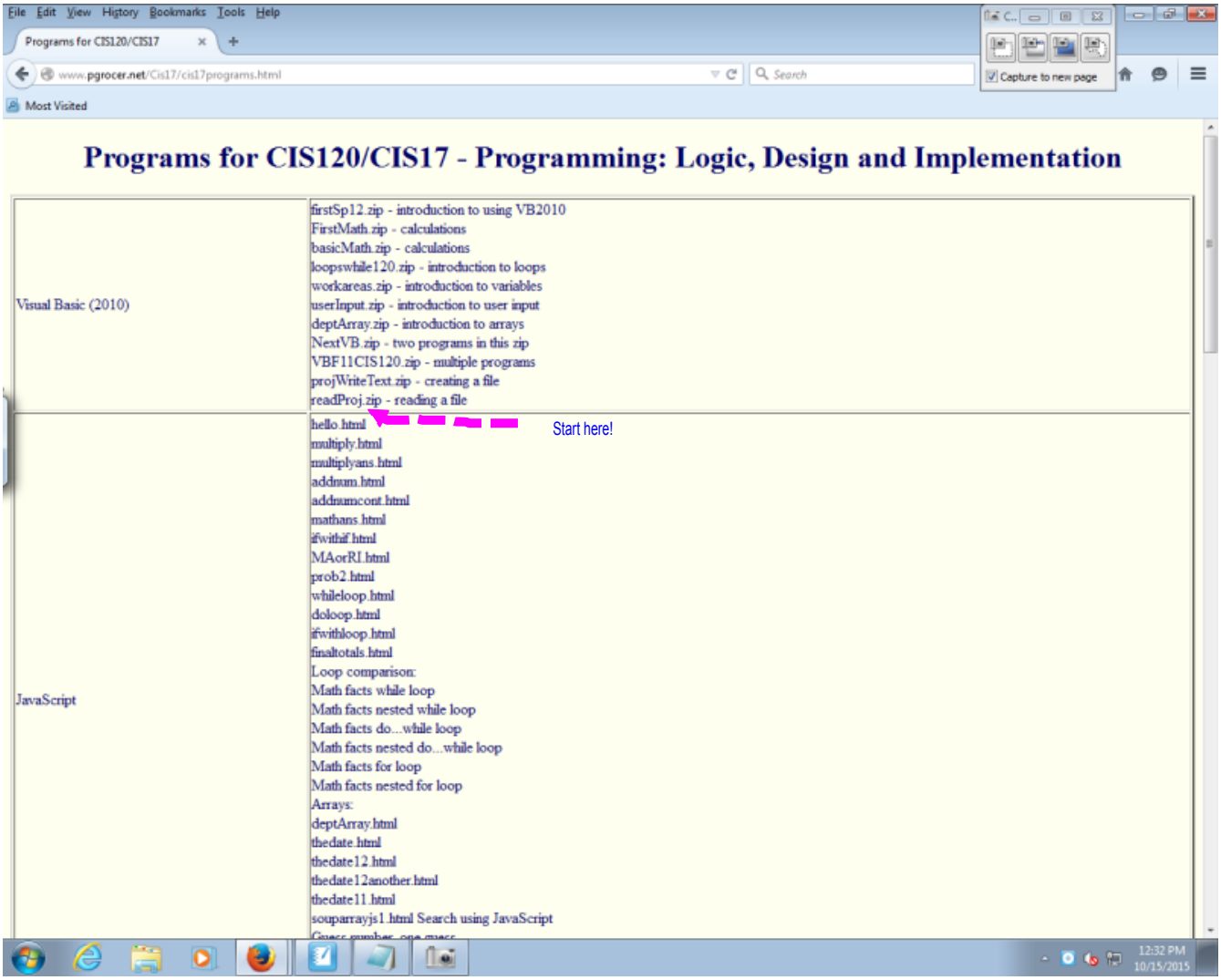
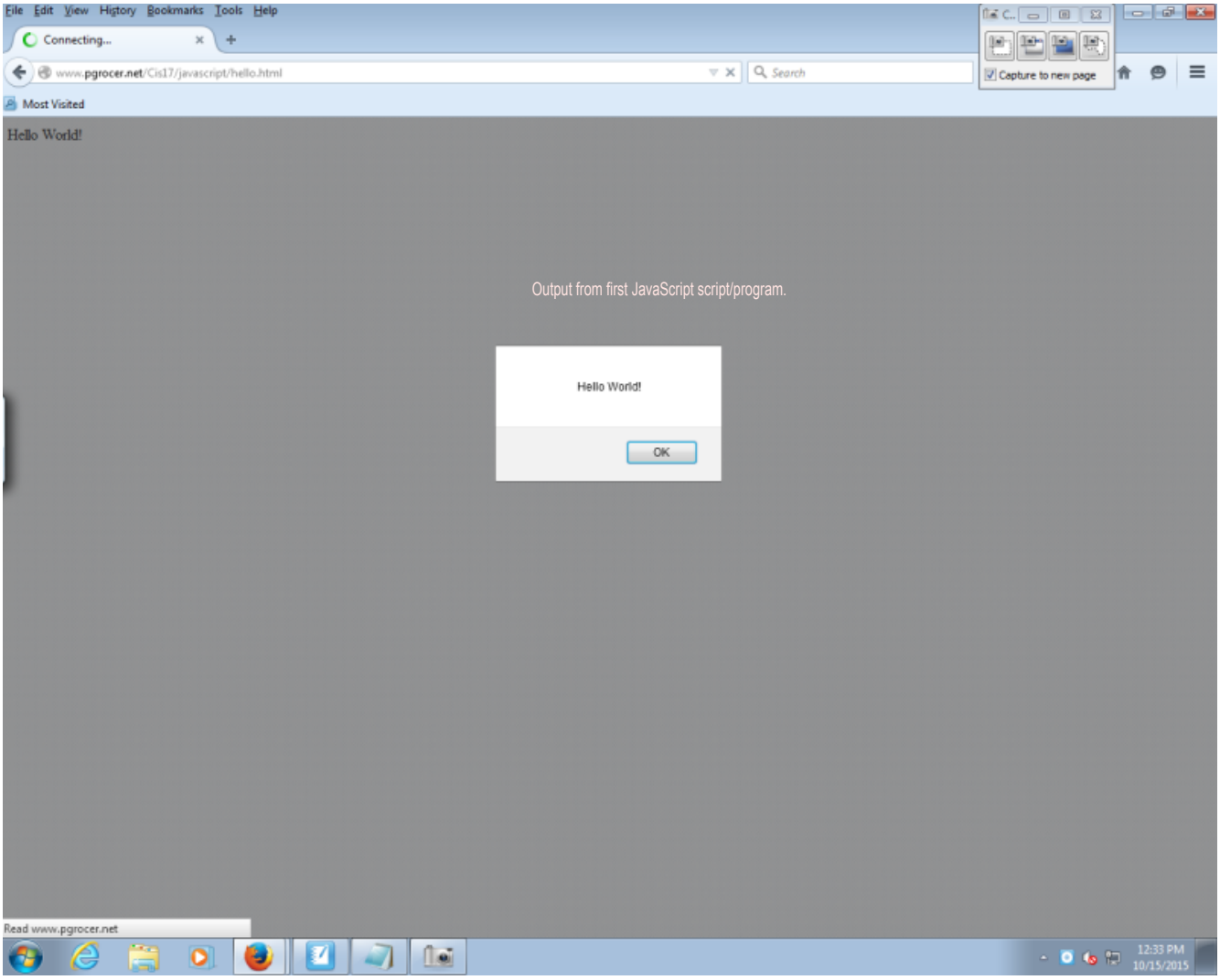
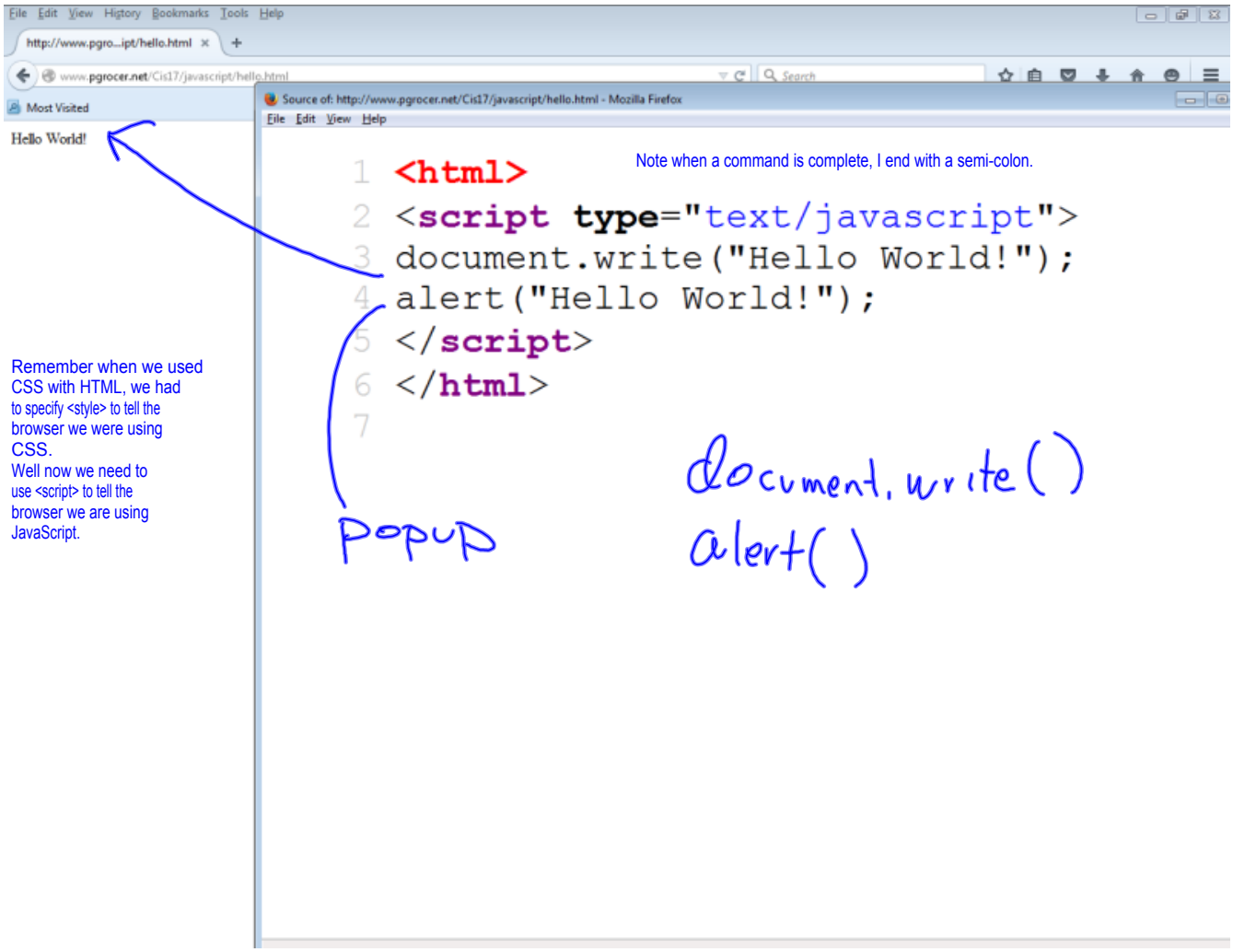
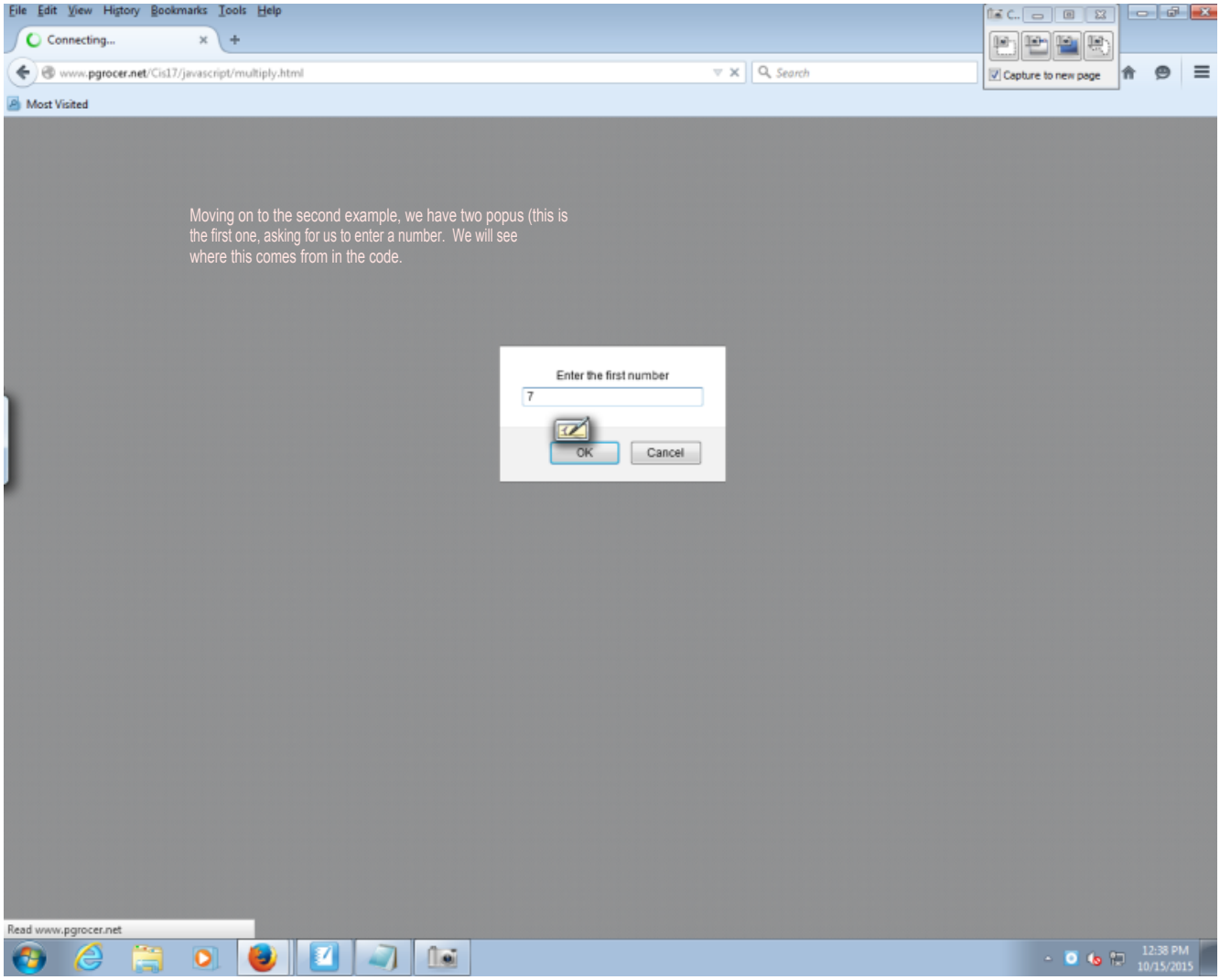
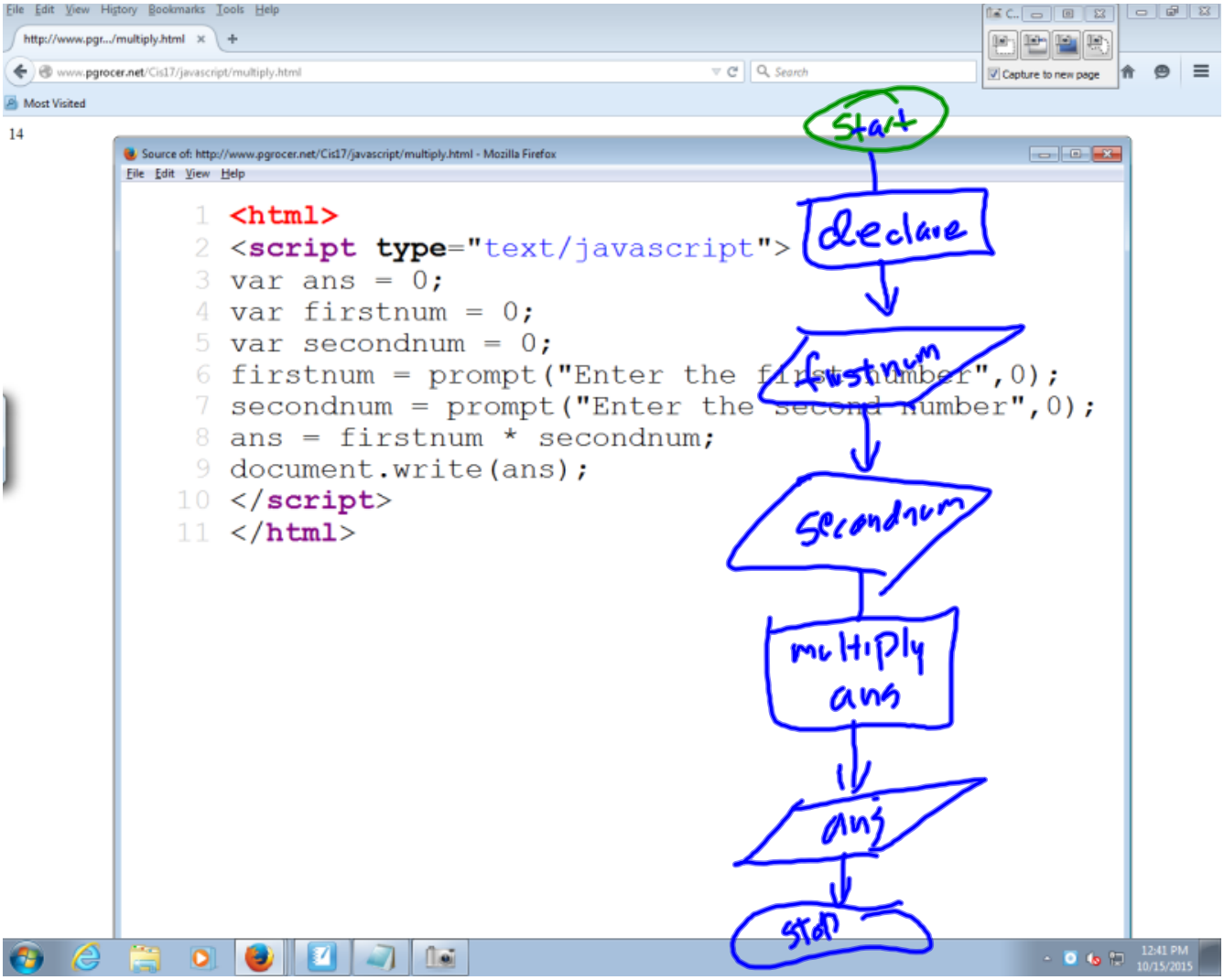
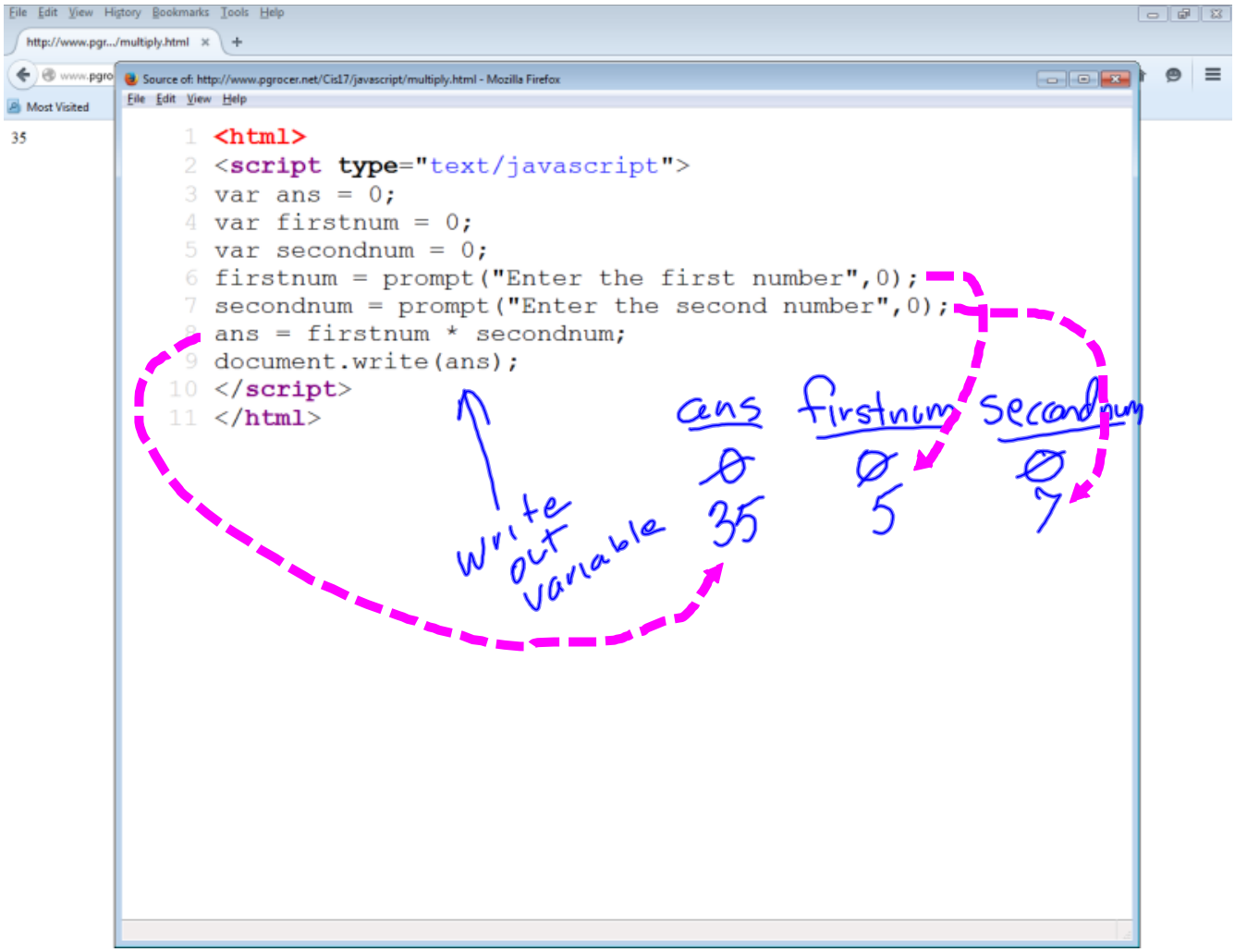

File Edit View History Bookmarks Tools Help
Programs for CIS120/CIS17
www.pgrocer.net/Cis17/cis17programs.html
Search
Capture to new page
Most Visited
Programs for CIS120/CIS17 - Programming: Logic, Design and Implementation
Visual Basic (2010)
firstSp12.zip - introduction to using VB2010
FirstMath.zip - calculations
basicMath.zip - calculations
loopswhile120.zip - introduction to loops
workareas.zip - introduction to variables
userInput.zip - 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
Start here!
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:
deptArray.html
thedate.html
thedate12.html
thedate12another.html
thedate11.html
souparrayjs1.html Search using JavaScript
12:32 PM
10/15/2015

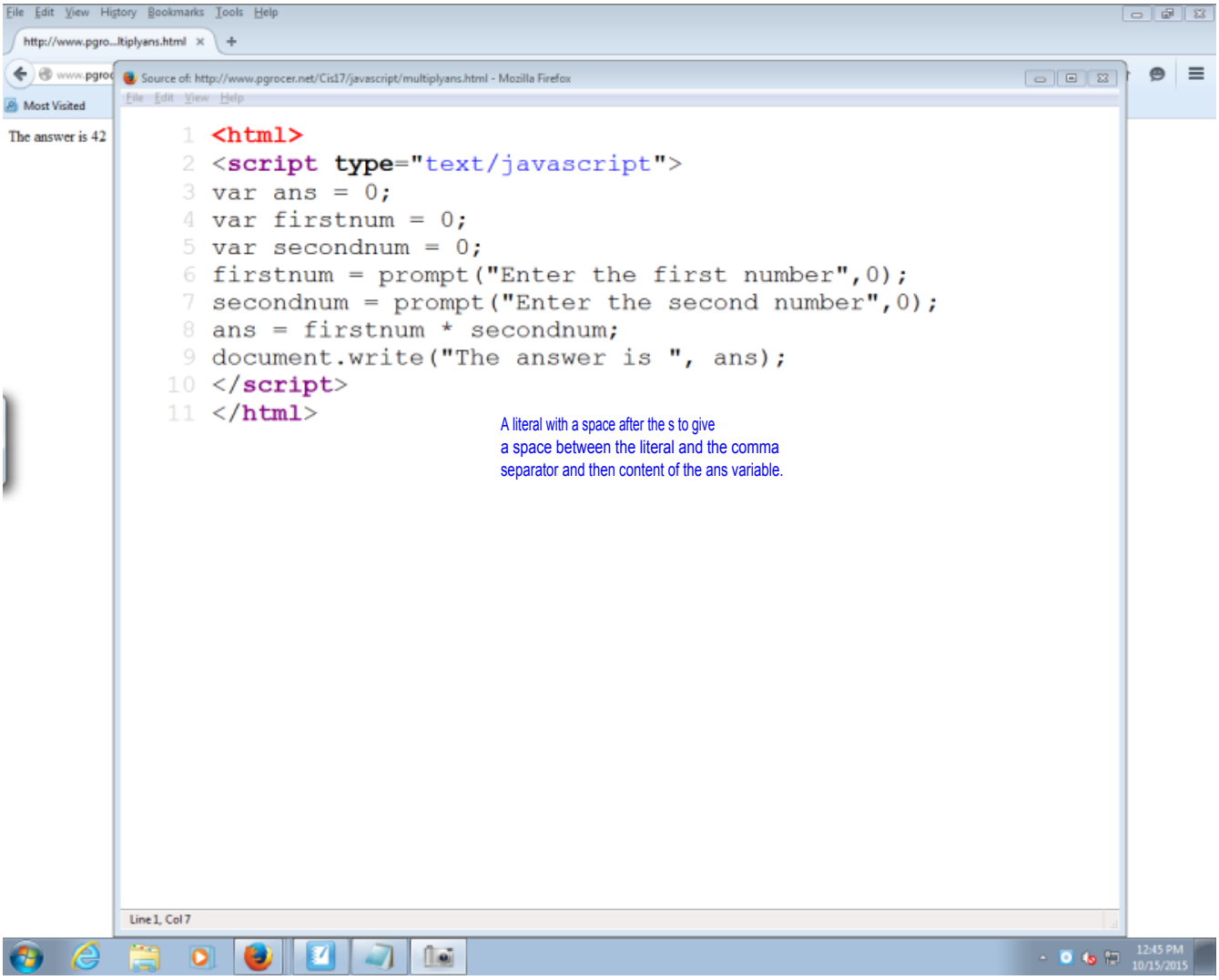

File Edit View History Bookmarks Tools Help
Connecting...
www.pgrocer.net/Cis17/javascript/hello.html
Search
Capture to new page
Most Visited
Hello World!
Output from first JavaScript script/program.
Hello World!
OK
Read www.pgrocer.net
12:33 PM
10/15/2015

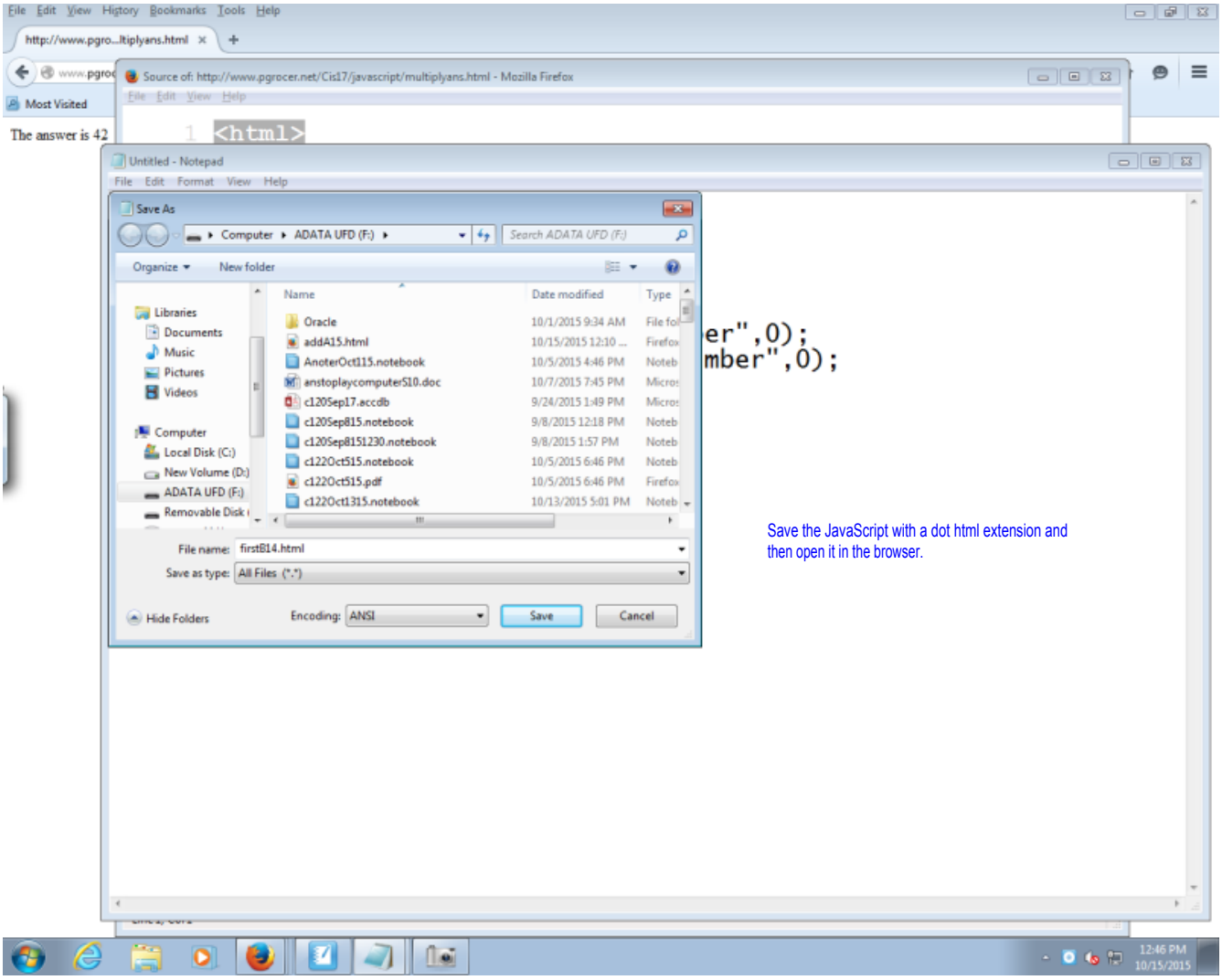

Hello World!
Source of: http://www.pgrocer.net/Cis17/javascript/hello.html - Mozilla Firefox
1 <html>
2 <script type="text/javascript">
3 document.write("Hello World!");
4 alert("Hello World!");
5 </script>
6 </html>
7
Note when a command is complete, I end with a semi-colon.
Remember when we used CSS with HTML, we had to specify <style> to tell the browser we were using CSS.
Well now we need to use <script> to tell the browser we are using JavaScript.
Popup
document.write()
alert()


File Edit View History Bookmarks Tools Help
Connecting...
www.pgrocer.net/Cis17/javascript/multiply.html
Search
Capture to new page
Most Visited
Moving on to the second example, we have two popus (this is the first one, asking for us to enter a number. We will see where this comes from in the code.
Enter the first number
7
OK
Cancel
Read www.pgrocer.net
12:38 PM
10/15/2015


File Edit View History Bookmarks Tools Help
http://www.pgr.../multiply.html
www.pgrocer.net/Cis17/javascript/multiply.html
Search
Capture to new page
Most Visited
14
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>
Start
declare
firstnum
secondnum
multiply
ans
ans
stop
12:41 PM
10/15/2015

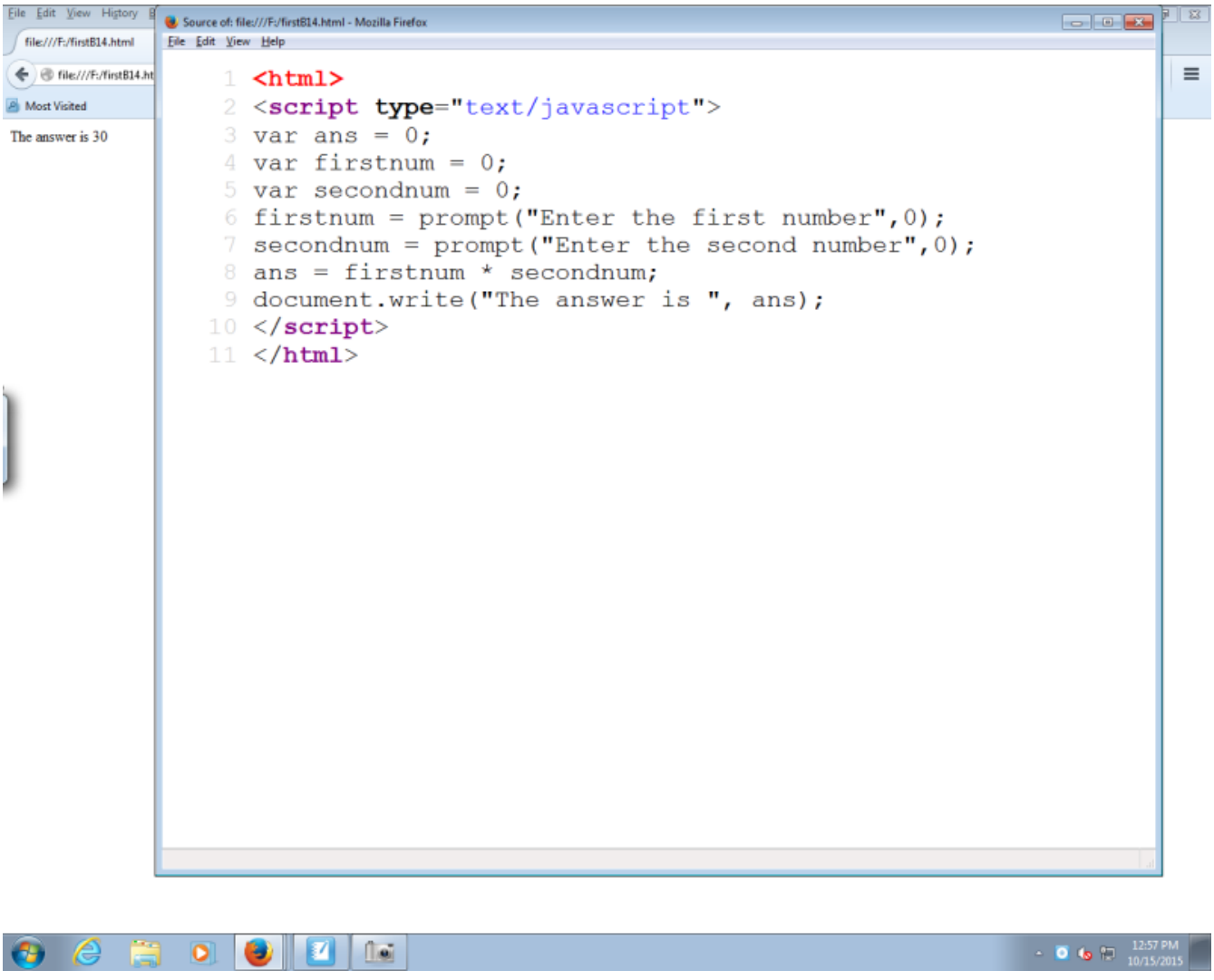

File Edit View History Bookmarks Tools Help
http://www.pgr.../multiply.html
Most Visited
35
Source of: http://www.pgrocer.net/Cis17/javascript/multiply.html - Mozilla Firefox
File Edit View Help
1 <html>
2 <script type="text/javascript">
3 var ans = 0;
4 var firstnum = 0;
5 var secondnum = 0;
6 firstnum = 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>
Write out variable
ans
0
35
firstnum
0
5
secondnum
0
7

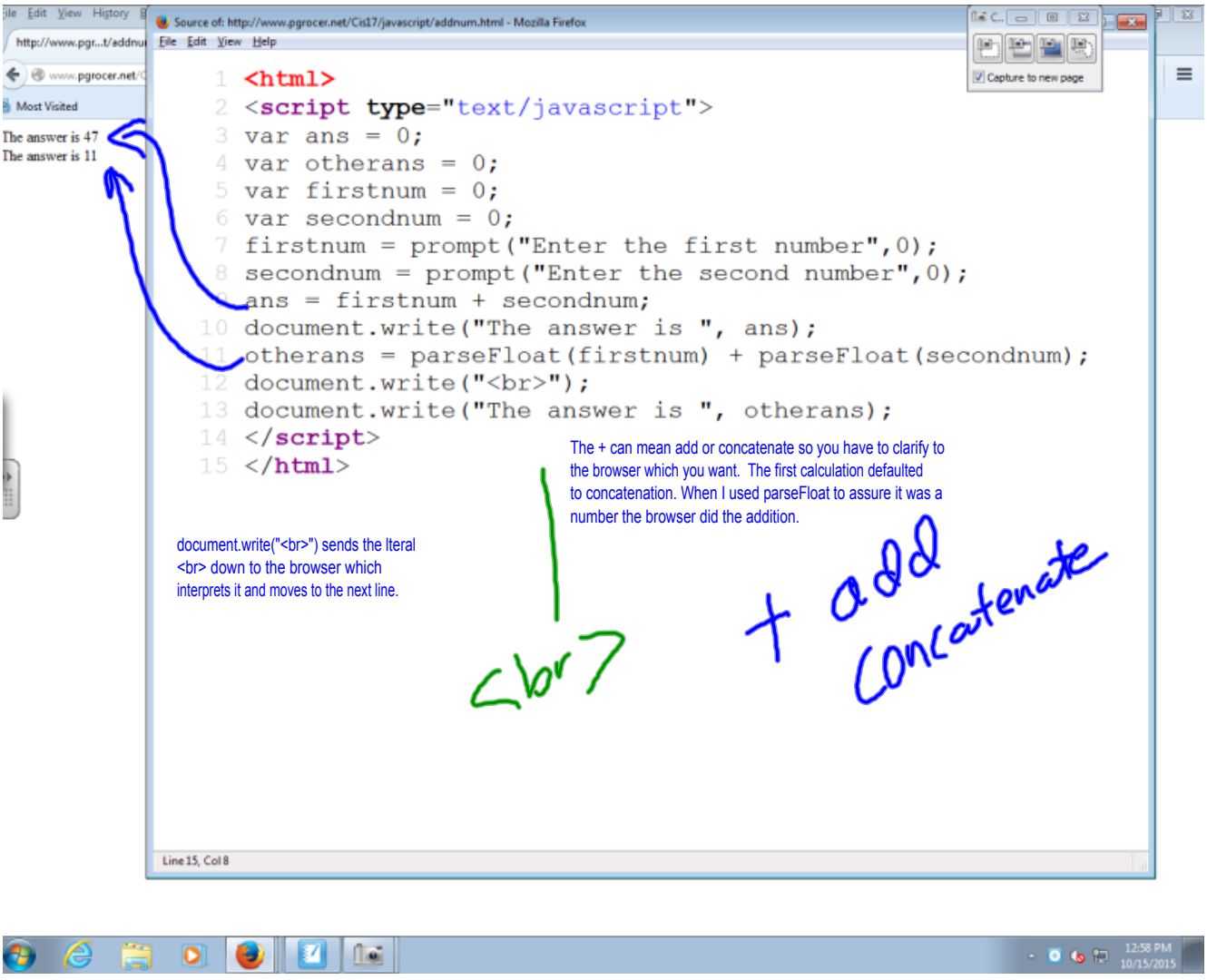

File Edit View History Bookmarks Tools Help
http://www.pgro...ltiplyans.html
Most Visited
The answer is 42
Source of: http://www.pgrocer.net/Cis17/javascript/multiplyans.html - Mozilla Firefox
File Edit View Help
1 <html>
2 <script type="text/javascript">
3 var ans = 0;
4 var firstnum = 0;
5 var secondnum = 0;
6 firstnum = prompt("Enter the first number",0);
7 secondnum = prompt("Enter the second number",0);
8 ans = firstnum * secondnum;
9 document.write("The answer is ", ans);
10 </script>
11 </html>
A literal with a space after the s to give
a space between the literal and the comma
separator and then content of the ans variable.
Line 1, Col 7
12:45 PM
10/15/2015


The answer is 42
Source of: http://www.pgrocer.net/Cis17/javascript/multiplyans.html - Mozilla Firefox
<html>
Untitled - Notepad
Save As
Computer ▸ ADATA UFD (F:) ▸
Search ADATA UFD (F:)
Organize
New folder
Libraries
Documents
Music
Pictures
Videos
Computer
Local Disk (C:)
New Volume (D:)
ADATA UFD (F:)
Removable Disk
Name
Date modified
Type
Oracle 10/1/2015 9:34 AM
addA15.html 10/15/2015 12:10 ...
AnoterOct115.notebook 10/5/2015 4:46 PM
anstoplaycomputerS10.doc 10/7/2015 7:45 PM
c120Sep17.accdb 9/24/2015 1:49 PM
c120Sep815.notebook 9/8/2015 12:18 PM
c120Sep8151230.notebook 9/8/2015 1:57 PM
c122Oct515.notebook 10/5/2015 6:46 PM
c122Oct515.pdf 10/5/2015 6:46 PM
c122Oct1315.notebook 10/13/2015 5:01 PM
er",0);
mber",0);
File name: firstB14.html
Save as type: All Files (*.*)
Hide Folders
Encoding: ANSI
Save
Cancel
Save the JavaScript with a dot html extension and then open it in the browser.
12:46 PM
10/15/2015

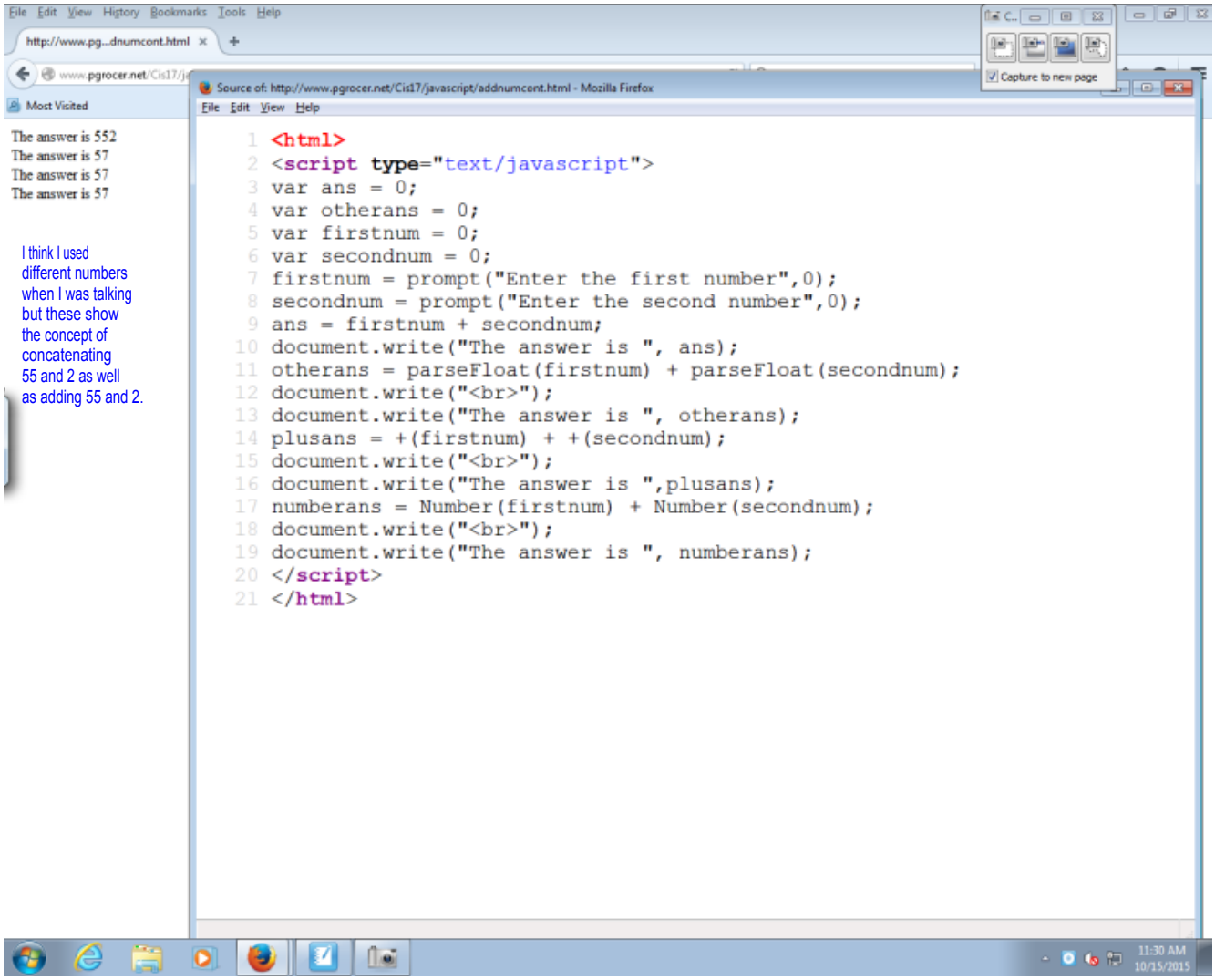

File Edit View History Bookmarks Tools Help
file:///F:/firstB14.html
file:///F:/firstB14.html
Search
Most Visited
The answer is 30


12:56 PM
10/15/2015


File Edit View History
file:///F:/firstB14.html
Most Visited
The answer is 30
Source of: file:///F:/firstB14.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("The answer is ", ans);
10 </script>
11 </html>
12:57 PM
10/15/2015

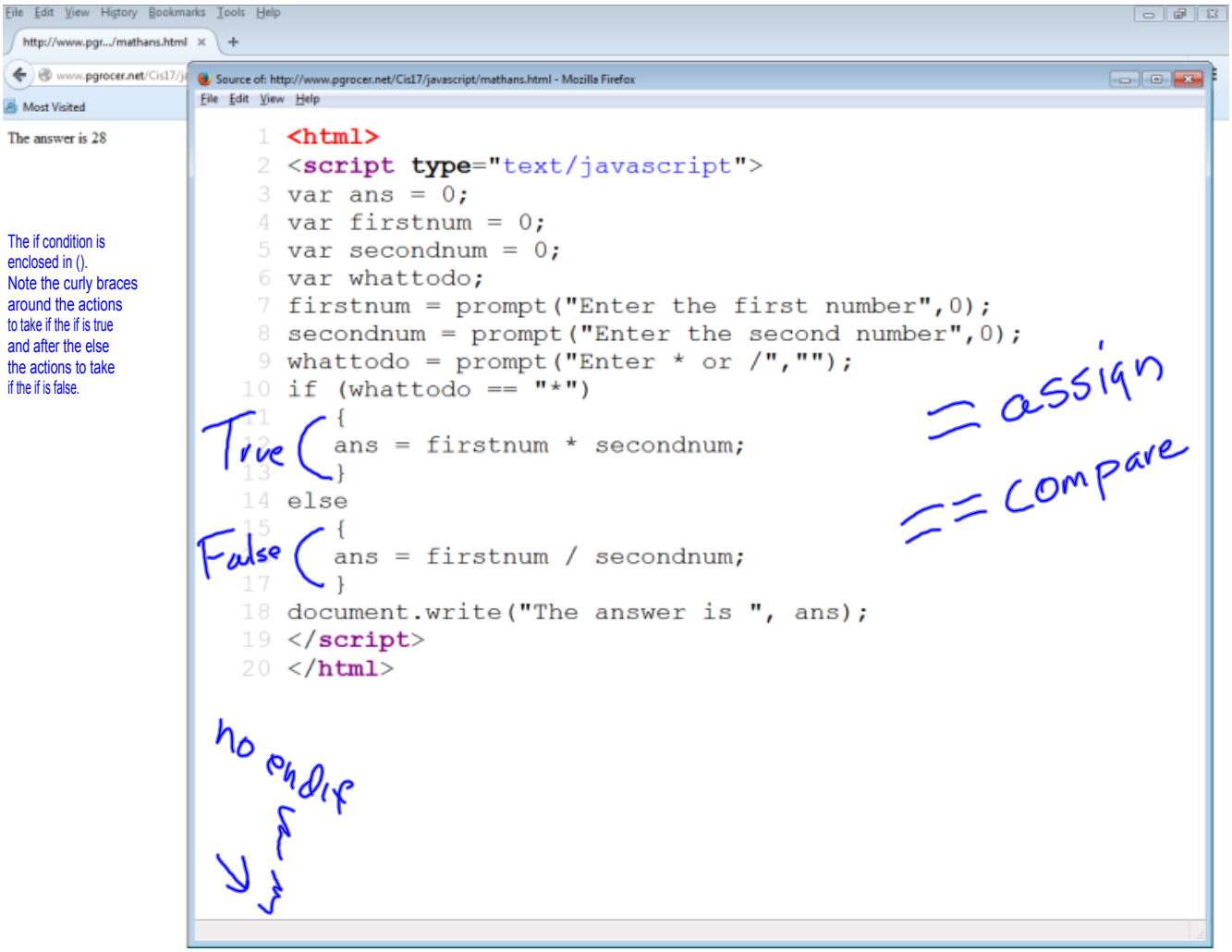

The answer is 47
The answer is 11
Source of: http://www.pgrocer.net/Cis17/javascript/addnum.html - Mozilla Firefox
File Edit View Help
1 <html>
2 <script type="text/javascript">
3 var ans = 0;
4 var otherans = 0;
5 var firstnum = 0;
6 var secondnum = 0;
7 firstnum = prompt("Enter the first number",0);
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("
");
13 document.write("The answer is ", otherans);
14 </script>
15 </html>
Line 15, Col 8
Capture to new page
document.write("
") sends the literal
 down to the browser which interprets it and moves to the next line.
The + can mean add or concatenate so you have to clarify to the browser which you want. The first calculation defaulted to concatenation. When I used parseFloat to assure it was a number the browser did the addition.

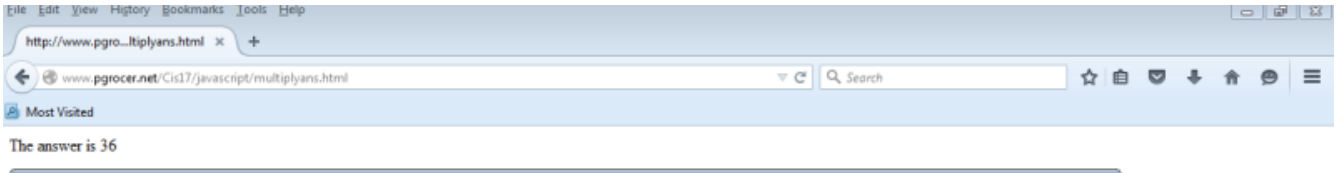
+ add concatenate


File Edit View History Bookmarks Tools Help
http://www.pg...dnumcont.html
Most Visited
The answer is 552
The answer is 57
The answer is 57
The answer is 57
I think I used different numbers when I was talking but these show the concept of concatenating 55 and 2 as well as adding 55 and 2.
Source of: http://www.pgrocer.net/Cis17/javascript/addnumcont.html - Mozilla Firefox
File Edit View Help
Capture to new page
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("
");
13 document.write("The answer is ", otherans);
14 plusans = +(firstnum) + +(secondnum);
15 document.write("
");
16 document.write("The answer is ",plusans);
17 numberans = Number(firstnum) + Number(secondnum);
18 document.write("
");
19 document.write("The answer is ", numberans);
20 </script>
21 </html>
11:30 AM
10/15/2015

```
<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
{
 ans = firstnum / secondnum;
}
document.write("The answer is ", ans);
</script>
</html>
```

= assign
== compare


File Edit View History Bookmarks Tools Help
http://www.pgr.../mathans.html
www.pgrocer.net/Cis17/j
Most Visited
The answer is 28
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 (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>
The if condition is enclosed in ().
Note the curly braces around the actions to take if the if is true and after the else the actions to take if the if is false.
True
False
= assign
== compare
no endif



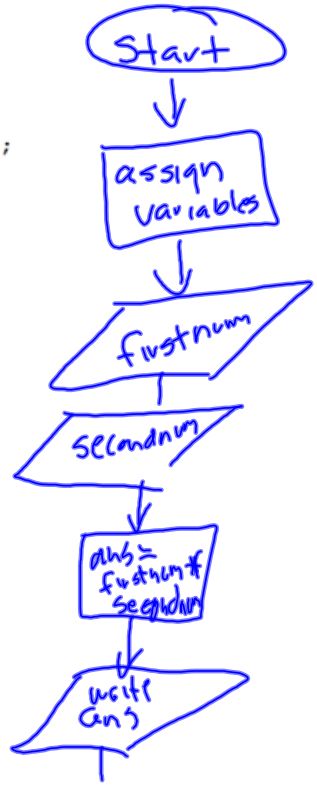
The answer is 36

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

File Edit View Help

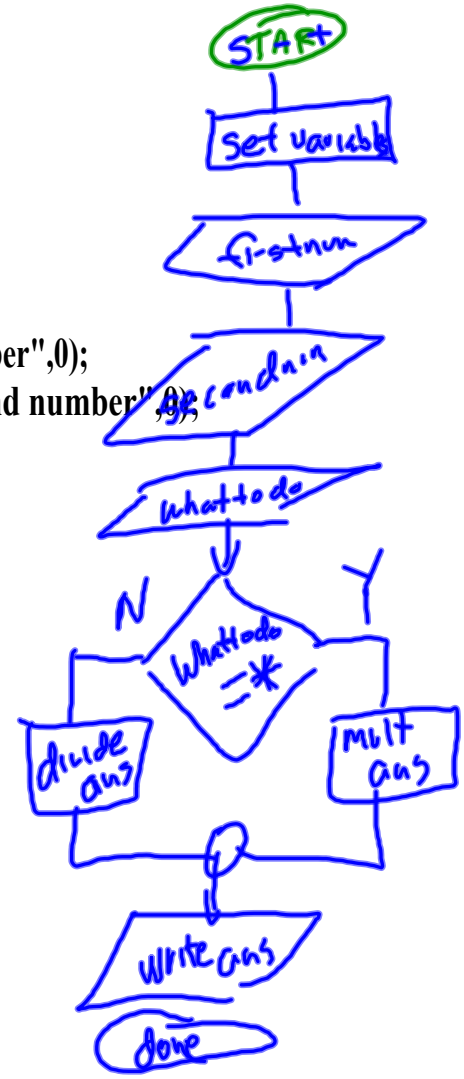
```
1  <html>
2  <script type="text/javascript">
3  var ans = 0;
4  var firstnum = 0;
5  var secondnum = 0;
6  firstnum = prompt("Enter the first number",0);
7  secondnum = prompt("Enter the second number",0);
8  ans = firstnum * secondnum;
9  document.write("The answer is ", ans);
10 </script>
11 </html>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

Remember this is when we just had a sequential flowchart.



Now we are looking at a flowchart with a condition.

```
<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
  {
   ans = firstnum / secondnum;
  }
document.write("The answer is ", ans);
</script>
</html>
```

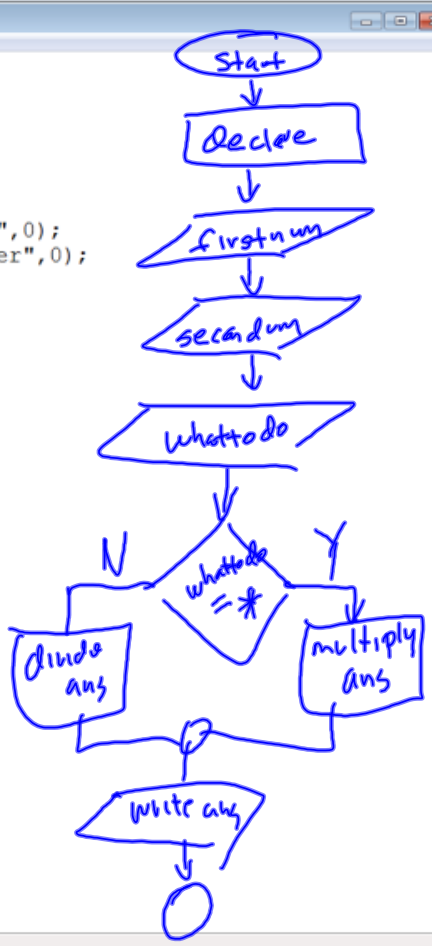


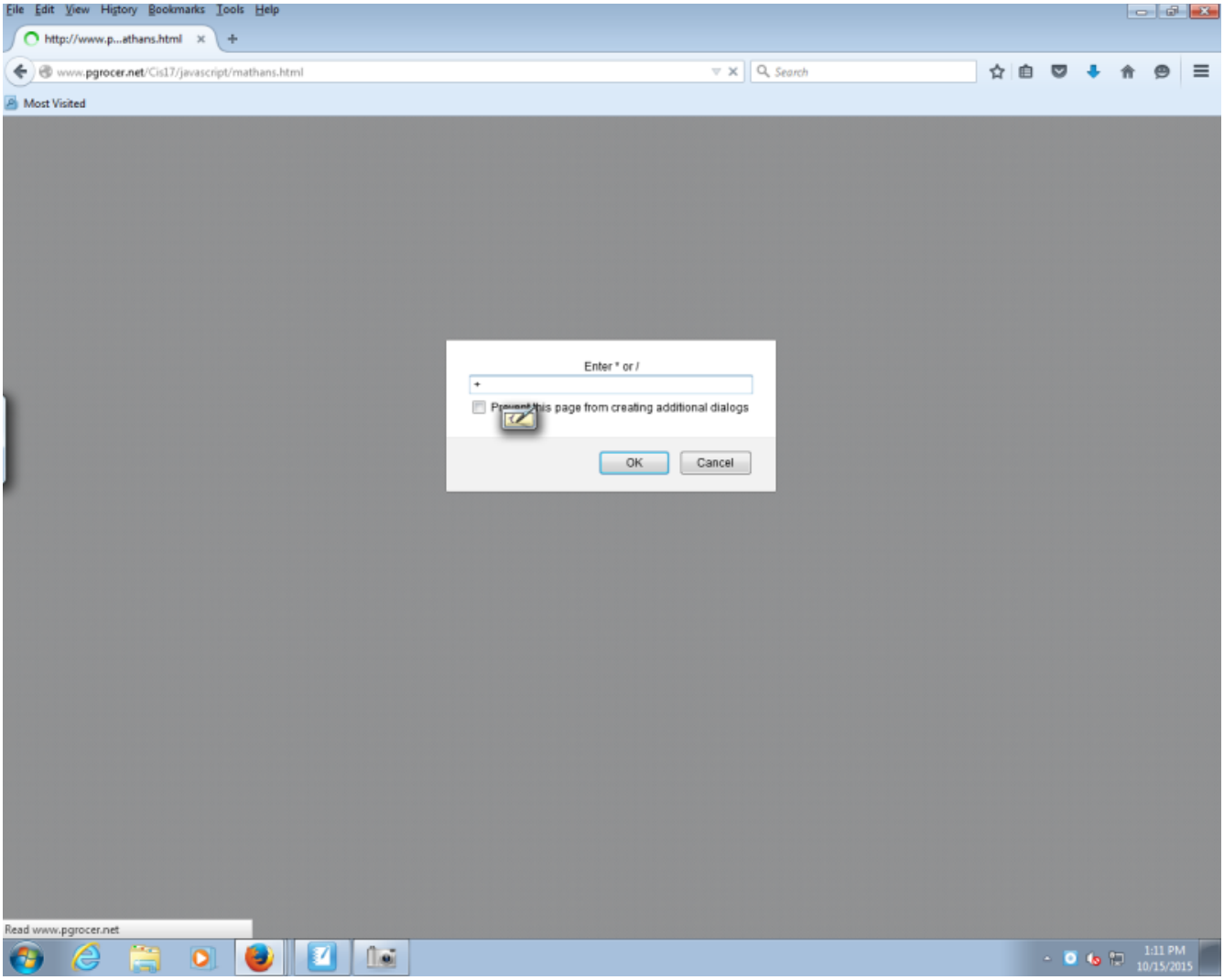
Source of: http://www.pgrocer.net/Cis17/javascript/mathans.html - Mozilla Firefox

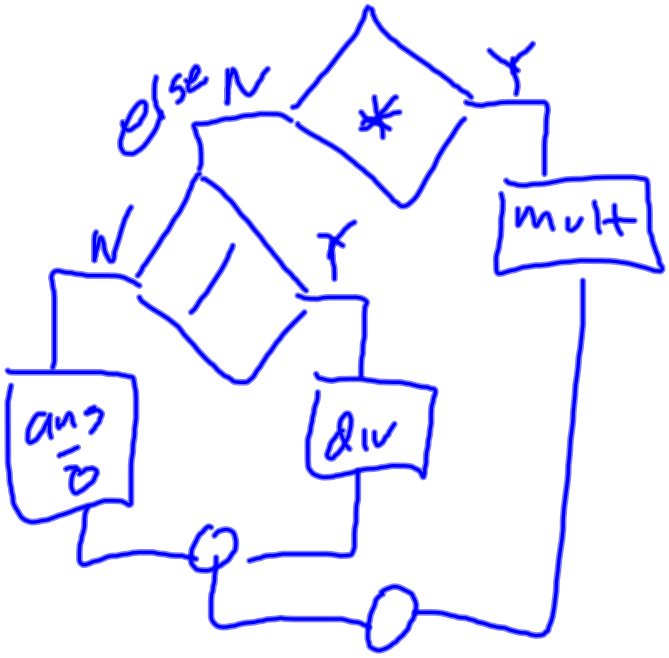
File Edit View Help

```
<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
   {
   ans = firstnum / secondnum;
   }
document.write("The answer is ", ans);
</script>
</html>
```

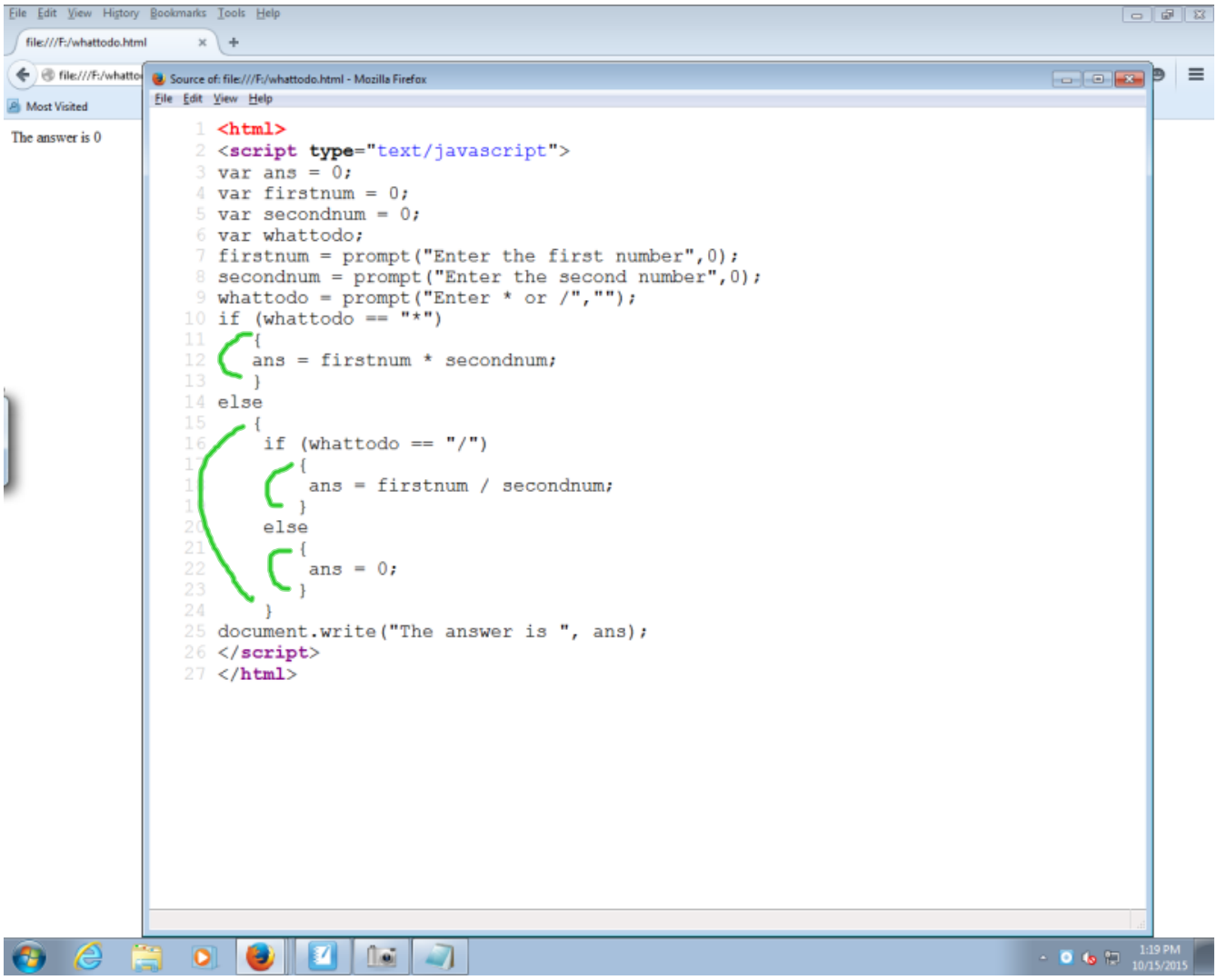
Note that if whattodo is anything other then an * the else is executed
so if you enter a + or a & or an A the divide will be done.




File Edit View History Bookmarks Tools Help
http://www.p...athans.html
www.pgrocer.net/Cis17/javascript/mathans.html
Search
Most Visited
Enter * or /
Prevent this page from creating additional dialogs
OK
Cancel
Read www.pgrocer.net
1:11 PM
10/15/2015



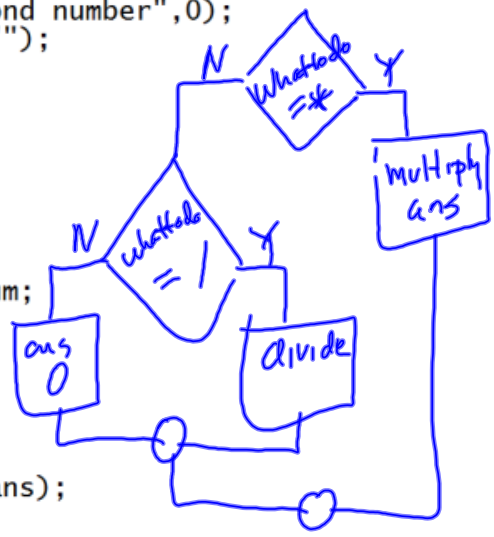
Now I had the class add in the ability to enter a + and get addition and a - and get subtraction.

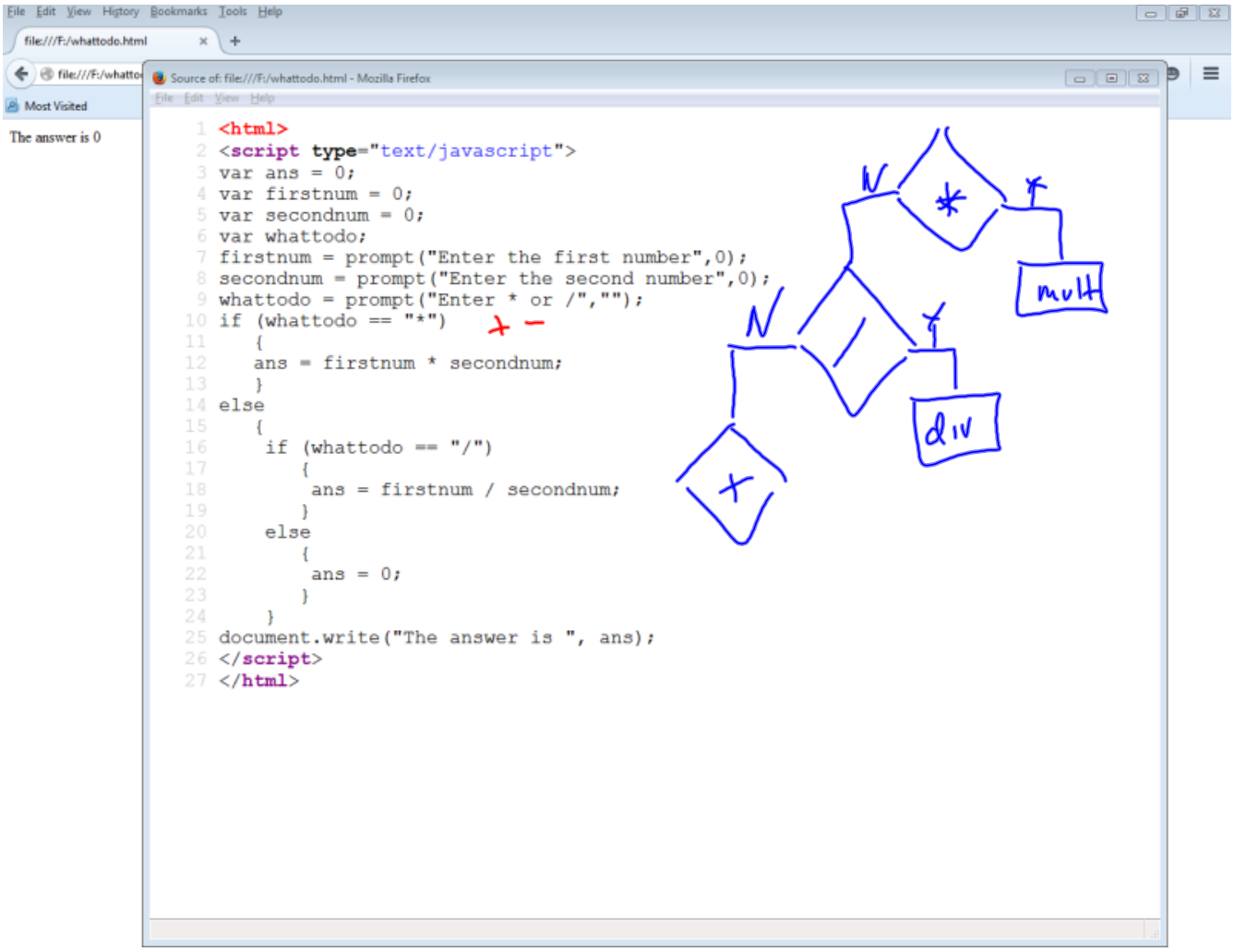

File Edit View History Bookmarks Tools Help
file:///F:/whattodo.html
Most Visited
The answer is 0
Source of: file:///F:/whattodo.html - Mozilla Firefox
File Edit View Help
1 <html>
2 <script type="text/javascript">
3 var ans = 0;
4 var firstnum = 0;
5 var secondnum = 0;
6 var whattodo;
7 firstnum = prompt("Enter the first number",0);
8 secondnum = prompt("Enter the second number",0);
9 whattodo = prompt("Enter * or /","");
10 if (whattodo == "*")
11 {
12 ans = firstnum * secondnum;
13 }
14 else
15 {
16 if (whattodo == "/")
17 {
18 ans = firstnum / secondnum;
19 }
20 else
21 {
22 ans = 0;
23 }
24 }
25 document.write("The answer is ", ans);
26 </script>
27 </html>
1:19 PM
10/15/2015

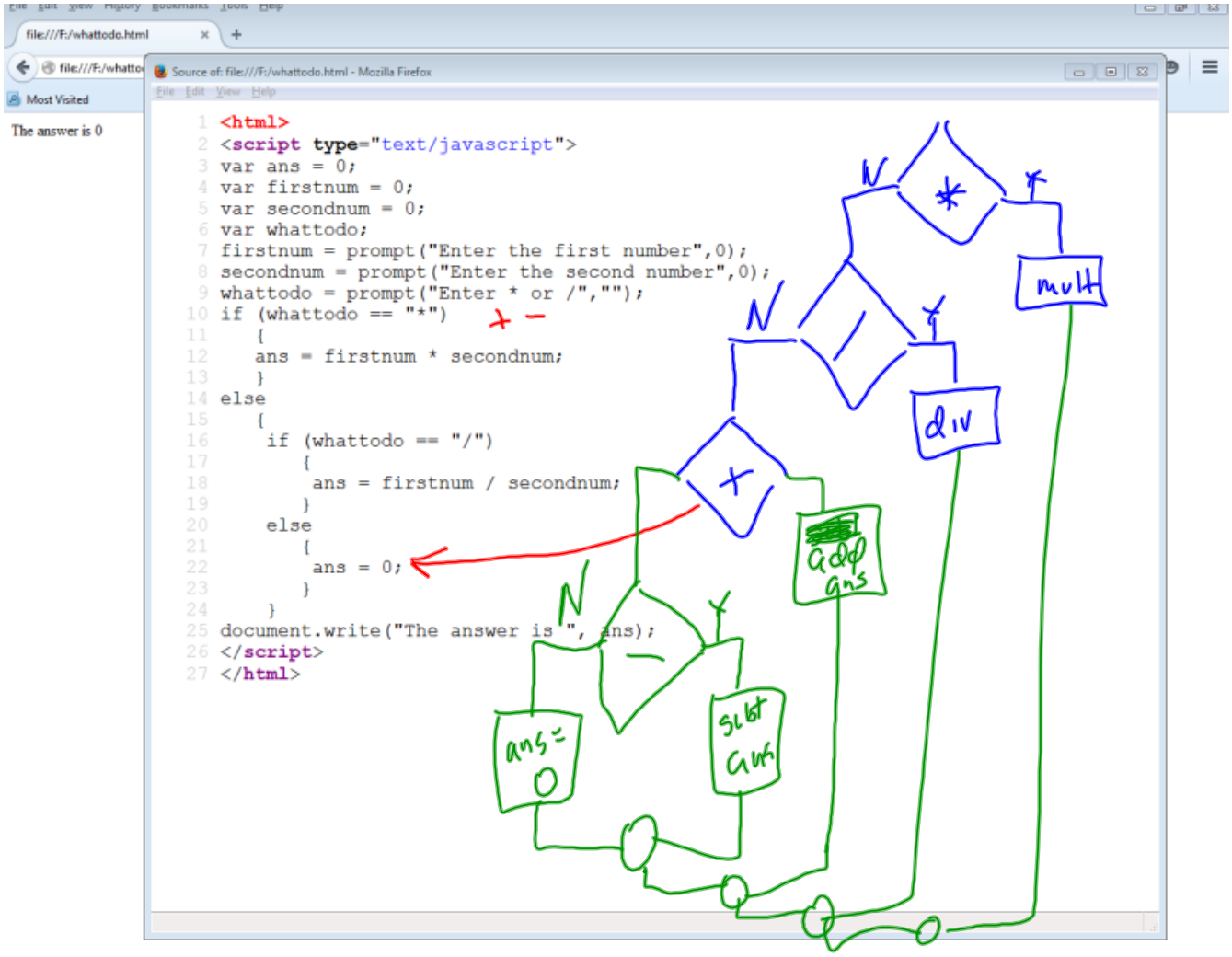
addA15.html - Notepad

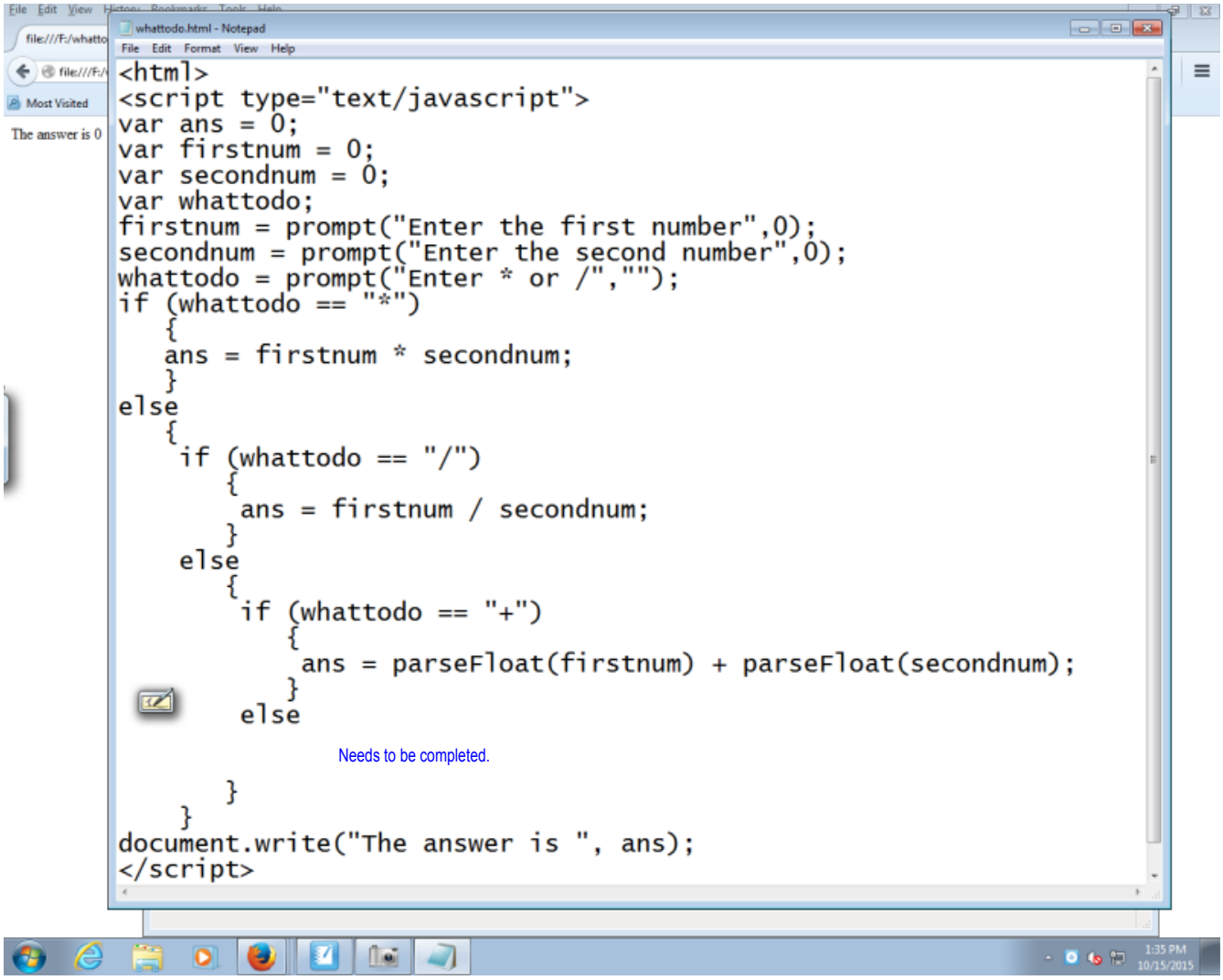
File Edit Format View Help

```
<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>
```



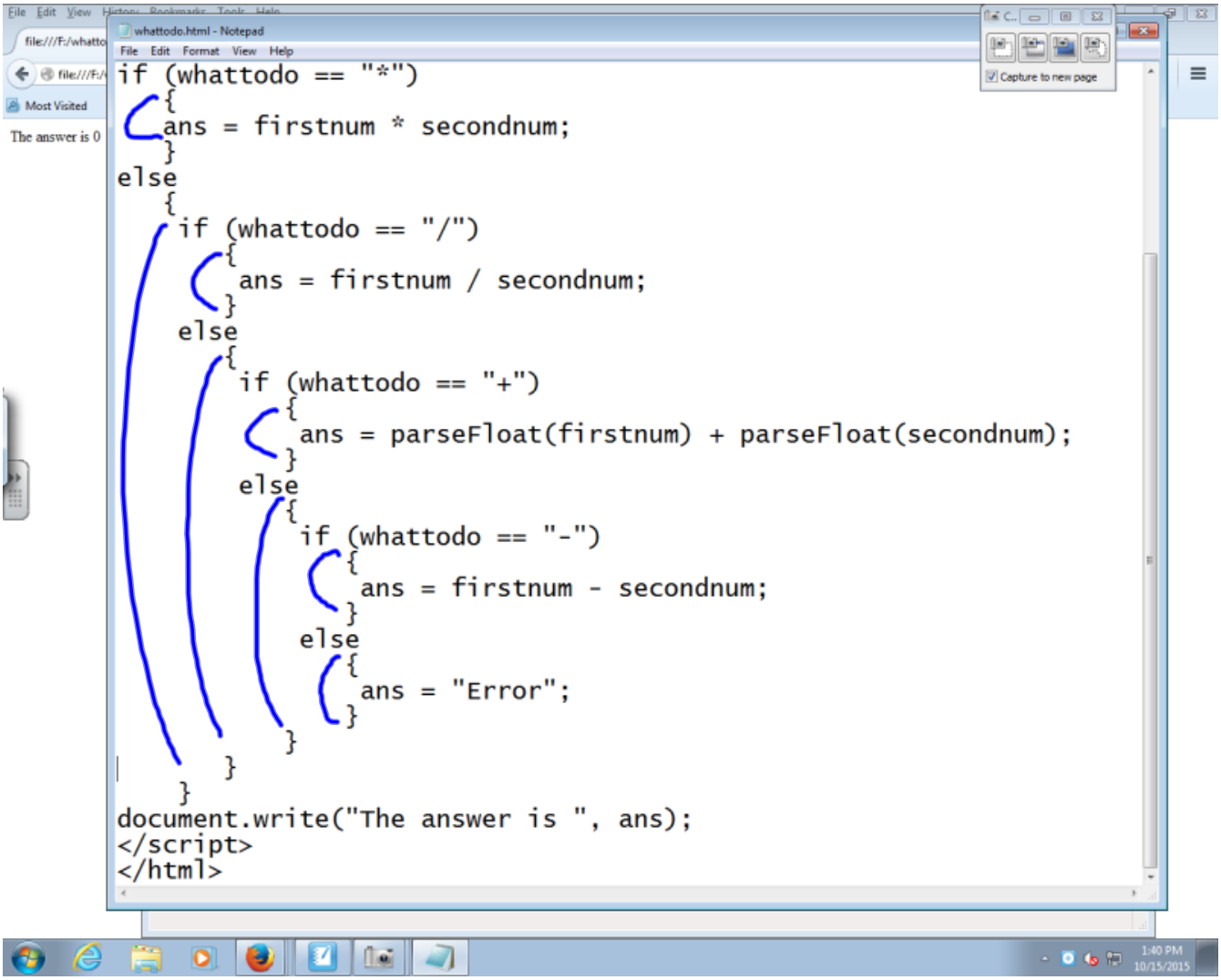

File Edit View History Bookmarks Tools Help
file:///F:/whattodo.html
Most Visited
The answer is 0
Source of: file:///F:/whattodo.html - Mozilla Firefox
File Edit View Help
1 <html>
2 <script type="text/javascript">
3 var ans = 0;
4 var firstnum = 0;
5 var secondnum = 0;
6 var whattodo;
7 firstnum = prompt("Enter the first number",0);
8 secondnum = prompt("Enter the second number",0);
9 whattodo = prompt("Enter * or /","");
10 if (whattodo == "*")
11 {
12 ans = firstnum * secondnum;
13 }
14 else
15 {
16 if (whattodo == "/")
17 {
18 ans = firstnum / secondnum;
19 }
20 else
21 {
22 ans = 0;
23 }
24 }
25 document.write("The answer is ", ans);
26 </script>
27 </html>
+ −
N
*
Y
mult
N
/
Y
div
+

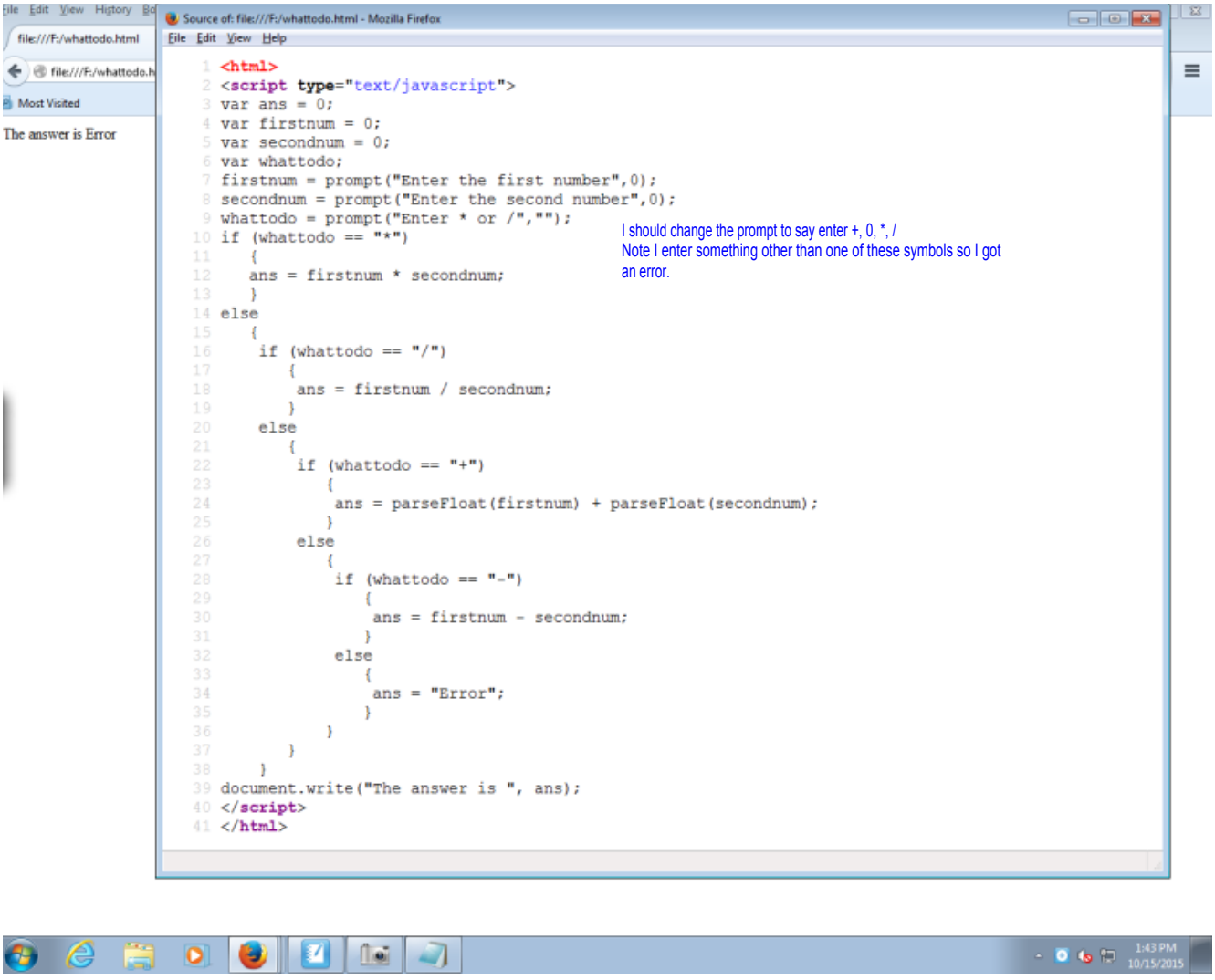

file:///F:/whattodo.html
Most Visited
The answer is 0
Source of: file:///F:/whattodo.html - Mozilla Firefox
File Edit View Help
1 <html>
2 <script type="text/javascript">
3 var ans = 0;
4 var firstnum = 0;
5 var secondnum = 0;
6 var whattodo;
7 firstnum = prompt("Enter the first number",0);
8 secondnum = prompt("Enter the second number",0);
9 whattodo = prompt("Enter * or /","");
10 if (whattodo == "*")
11 {
12 ans = firstnum * secondnum;
13 }
14 else
15 {
16 if (whattodo == "/")
17 {
18 ans = firstnum / secondnum;
19 }
20 else
21 {
22 ans = 0;
23 }
24 }
25 document.write("The answer is ", ans);
26 </script>
27 </html>
+ −
N
Y
mult
div
add ans
ans = 0
sub ans




```
<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

        }
    }
document.write("The answer is ", ans);
</script>
```


whattodo.html - Notepad
File Edit Format View Help
The answer is 0
Capture to new page
if (whattodo == "*")
{
ans = firstnum * secondnum;
}
else
{
if (whattodo == "/")
{
ans = firstnum / secondnum;
}
else
{
if (whattodo == "+")
{
ans = parseFloat(firstnum) + parseFloat(secondnum);
}
else
{
if (whattodo == "-")
{
ans = firstnum - secondnum;
}
else
{
ans = "Error";
}
}
}
}
document.write("The answer is ", ans);
</script>
</html>
1:40 PM
10/15/2015


File Edit View History Bo
file:///F:/whattodo.html
file:///F:/whattodo.h
Most Visited
The answer is Error
Source of: file:///F:/whattodo.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 (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 = firstnum - secondnum;
31 }
32 else
33 {
34 ans = "Error";
35 }
36 }
37 }
38 }
39 document.write("The answer is ", ans);
40 </script>
41 </html>
I should change the prompt to say enter +, 0, *, /
Note I enter something other than one of these symbols so I got an error.
1:43 PM
10/15/2015

JavaScript Assignment #1

You need to write the pseudocode or draw the flowchart for the problems you need to solve. Pass in the pseudocode or flowchart along with the JavaScript code.

Problem #1: Take in four grades and determine and display the average.

Problem #2: Take in the total amount of a donation you pledged and the number of payments that you plan to make and determine the amount of each payment. Say if you pledge 100 and say you are making 4 payments that means 25 dollars per payment. Display the amount of the payment.

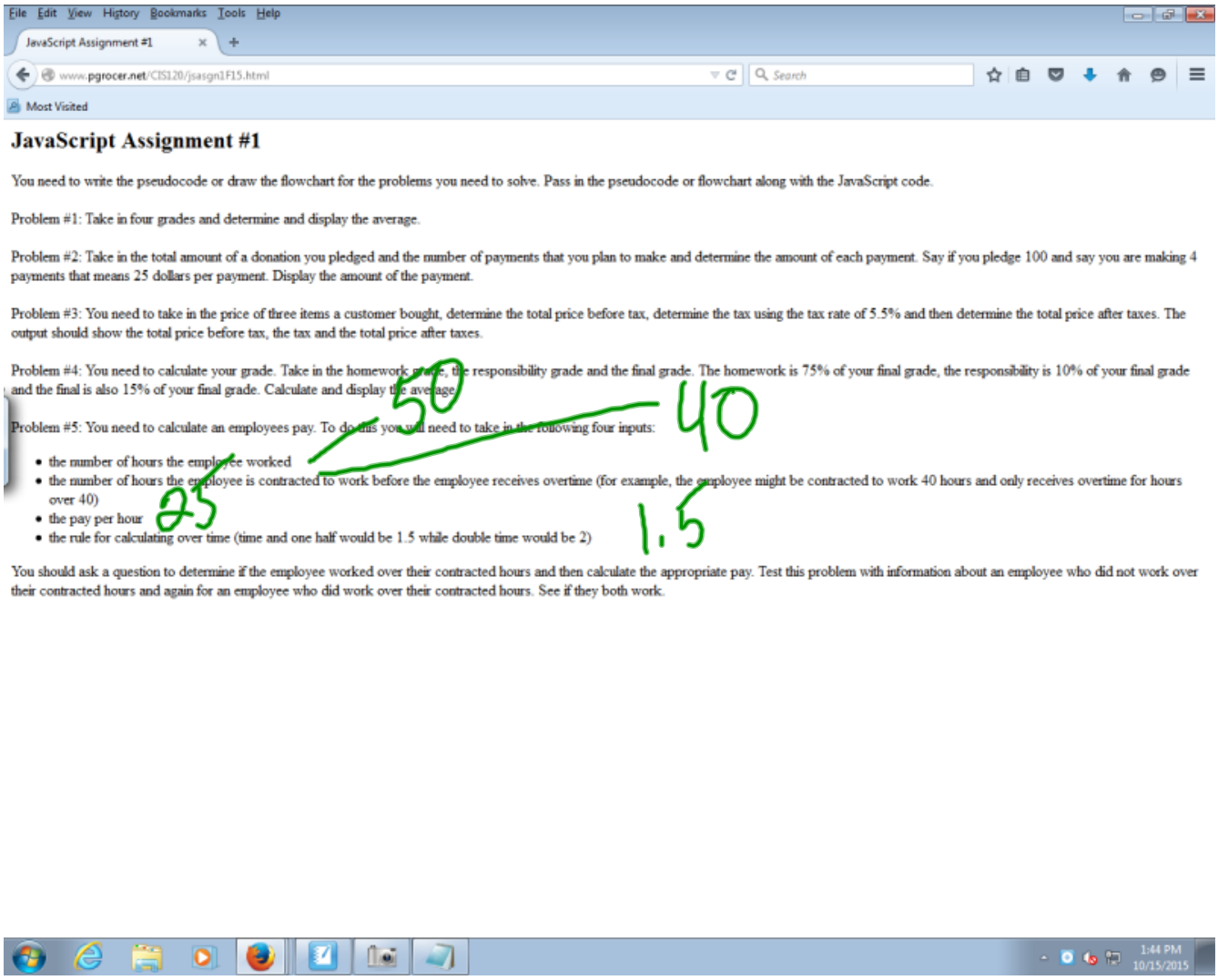
Problem #3: You need to take in the price of three items a customer bought, determine the total price before tax, determine the tax using the tax rate of 5.5% and then determine the total price after taxes. The output should show the total price before tax, the tax and the total price after taxes.

Problem #4: You need to calculate your grade. Take in the homework grade, the responsibility grade and the final grade. The homework is 75% of your final grade, the responsibility is 10% of your final grade and the final is also 15% of your final grade. Calculate and display the average Extra credit if you also show the letter grade.

Problem #5: You need to calculate an employees pay. To do this you will need to take in the following four inputs:

- the number of hours the employee worked
- the number of hours the employee is contracted to work before the employee receives overtime (for example, the employee might be contracted to work 40 hours and only receives overtime for hours over 40)
- the pay per hour
- the rule for calculating over time (time and one half would be 1.5 while double time would be 2)

You should ask a question to determine if the employee worked over their contracted hours and then calculate the appropriate pay. Test this problem with information about an employee who did not work over their contracted hours and again for an employee who did work over their contracted hours. See if they both work.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JavaScript Assignment #1
www.pgrocer.net/CIS120/jsasgn1F15.html
Search
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JavaScript Assignment #1
You need to write the pseudocode or draw the flowchart for the problems you need to solve. Pass in the pseudocode or flowchart along with the JavaScript code.
Problem #1: Take in four grades and determine and display the average.
Problem #2: Take in the total amount of a donation you pledged and the number of payments that you plan to make and determine the amount of each payment. Say if you pledge 100 and say you are making 4 payments that means 25 dollars per payment. Display the amount of the payment.
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Problem #5: You need to calculate an employees pay. To do this you will need to take in the following four inputs:
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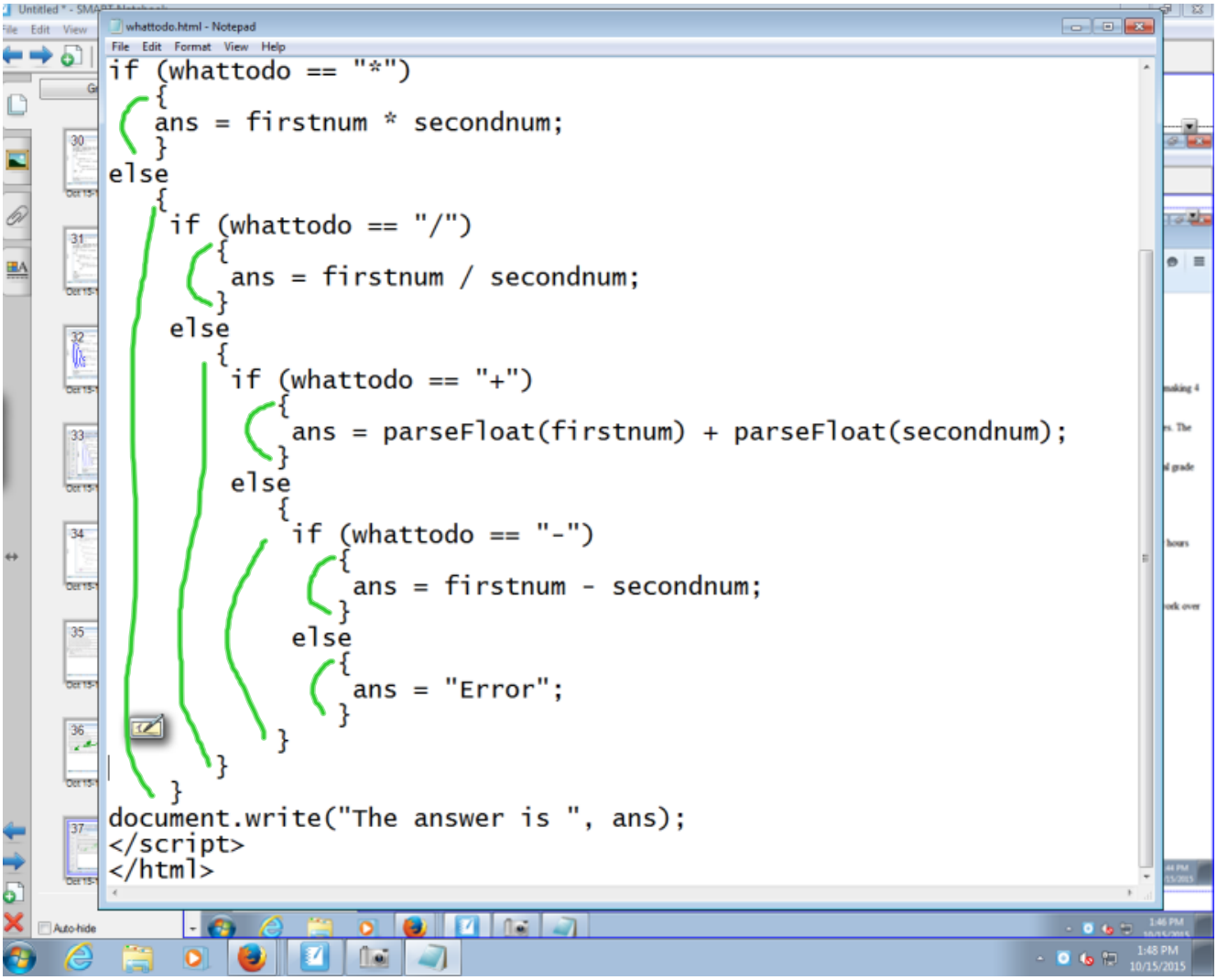
the rule for calculating over time (time and one half would be 1.5 while double time would be 2)
You should ask a question to determine if the employee worked over their contracted hours and then calculate the appropriate pay. Test this problem with information about an employee who did not work over their contracted hours and again for an employee who did work over their contracted hours. See if they both work.
50
40
25
1.5
1:44 PM
10/15/2015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