

The screenshot displays a Windows desktop environment with three overlapping windows:

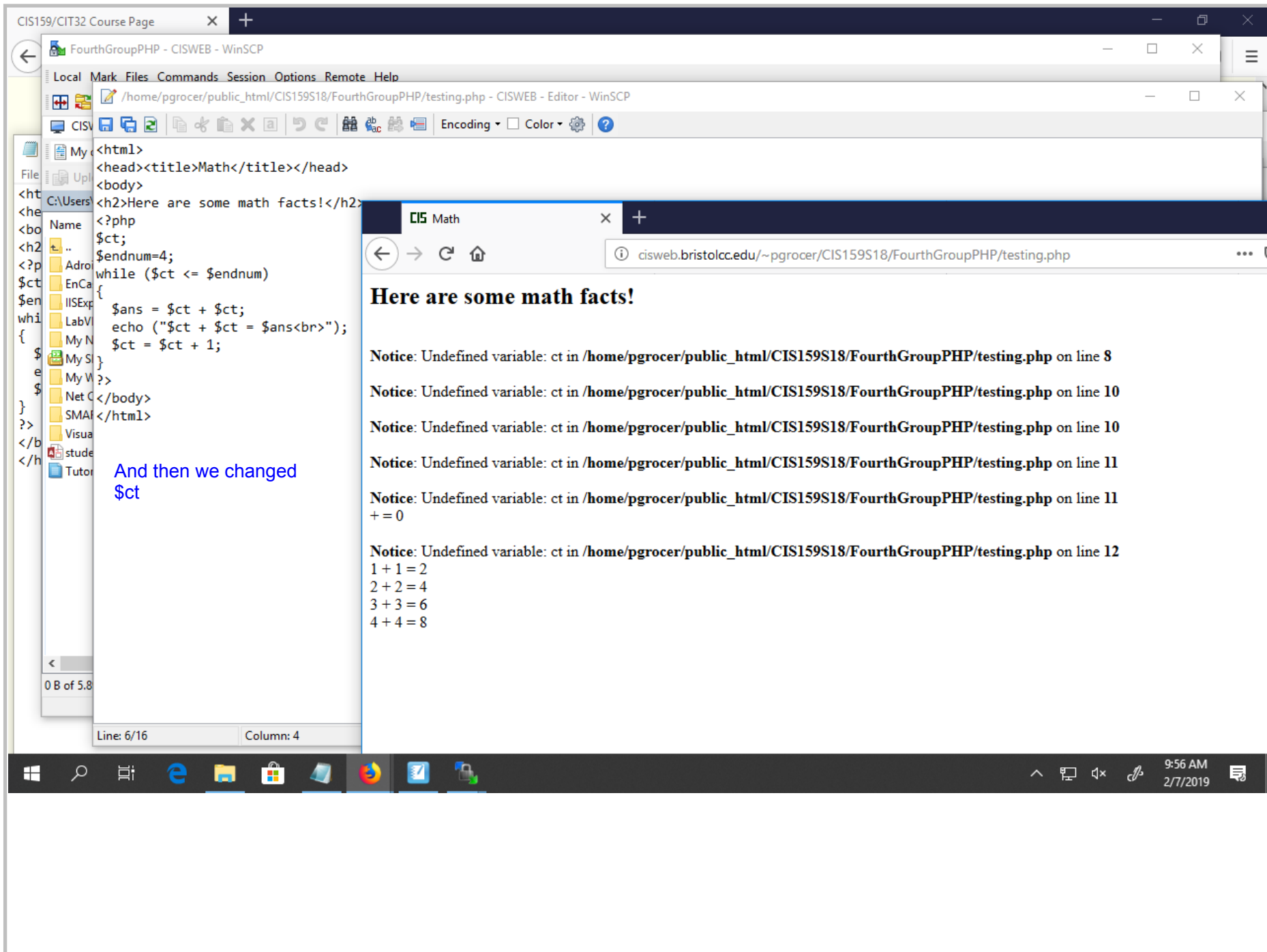
- WinSCP Window:** Shows a remote session titled "FourthGroupPHP - CISWEB - WinSCP". The interface includes a menu bar (Local, Mark, Files, Commands, Session, Options, Remote, Help) and a toolbar with icons for Synchronize, Queue, and Transfer Settings. The current session is named "CISWEB".
- Notepad Window:** Titled "Untitled - Notepad", it contains the following PHP code:

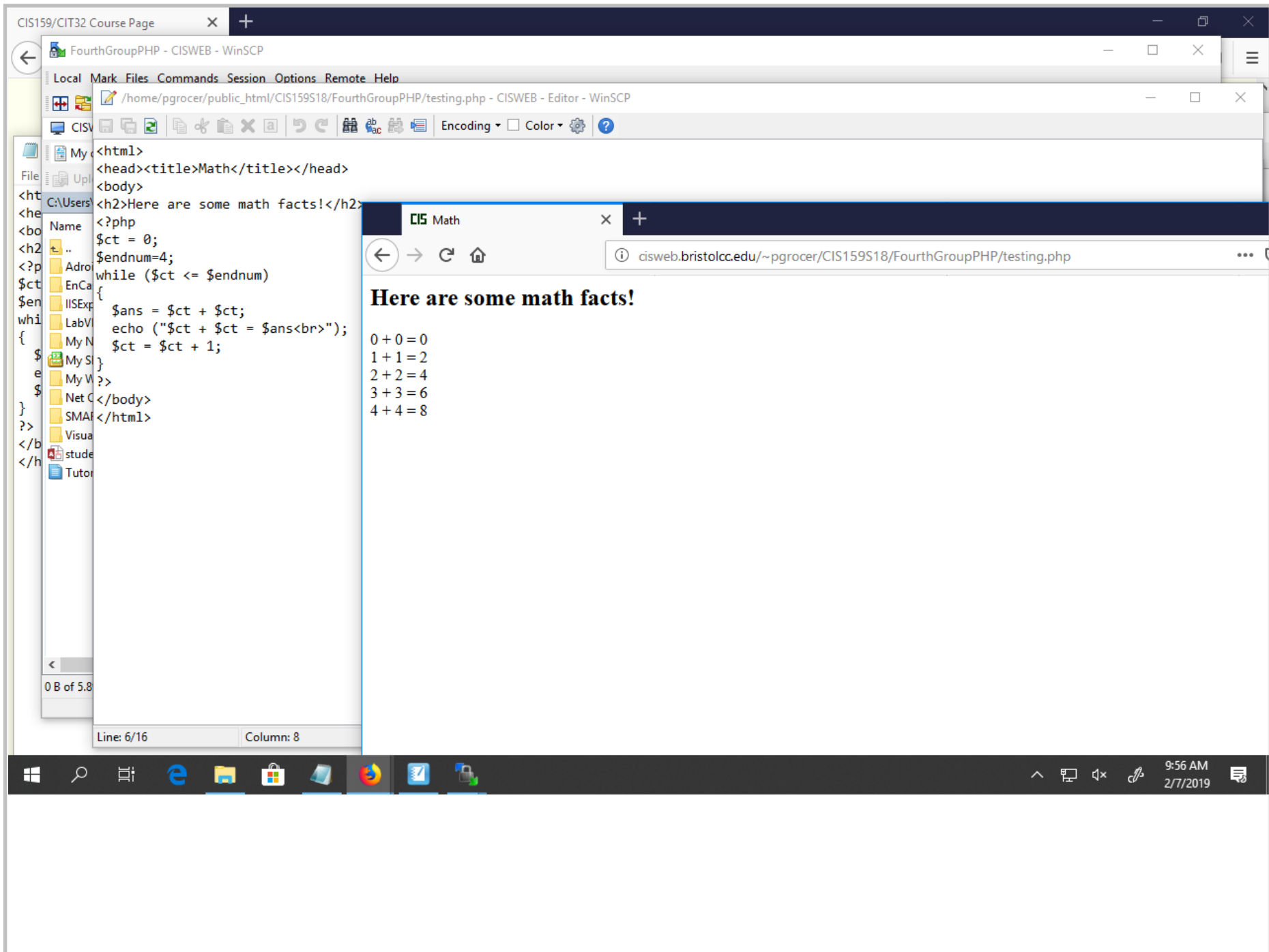
```
<html>
<head><title>Math</title></head>
<body>
<h2>Here are some math facts!</h2>
<?php
$ct;
$endnum=4;
$ct=$startnum;
while ($ct <= $endnum)
{
    $ans = $ct + $ct;
    echo (" $ct + $ct = $ans<br>");
    $ct = $ct + 1;
}
?>
</body>
</html>
```
- Web Browser Window:** Titled "CIS Math", it shows the rendered output of the PHP code. The page title is "CIS Math" and the URL is "cisweb.bristolcc.edu/~pgrocer/CIS159S18/FourthGroupPHP/testing.php". The page content includes:

```
Here are some math facts!

Notice: Undefined variable: startnum in /home/pgrocer/public_html/CIS159S18/FourthGroupPHP/testing.php on line 7
+ = 0
1 + 1 = 2
2 + 2 = 4
3 + 3 = 6
4 + 4 = 8
```

A blue text annotation is present in the Notepad window: "Someone asked what would happen if we did not define \$startnum so we experimented."





The image shows a WinSCP editor window on the left and a browser window on the right. The editor displays the following PHP code:

```
<html>
<head><title>Math</title></head>
<body>
<h2>Here are some math facts!</h2>
<?php
    $ct = 0;
    $endnum=4;
    while ($ct <= $endnum)
    {
        $ans = $ct + $ct;
        echo (" $ct + $ct = $ans<br>");
        $ct = $ct + 1;
    }
?>
</body>
</html>
```

The browser window shows the output of the script:

```
Here are some math facts!
0 + 0 = 0
1 + 1 = 2
2 + 2 = 4
3 + 3 = 6
4 + 4 = 8
```

Handwritten blue annotations include:

- "3 things" with arrows pointing to the initialization of `$ct`, the `while` condition, and the increment statement.
- "Set control" pointing to the `$ct = 0;` line.
- "test control" pointing to the `while ($ct <= $endnum)` line.
- "change control" pointing to the `$ct = $ct + 1;` line.

A note on the right says: "Three things to do to make loops work successfully."

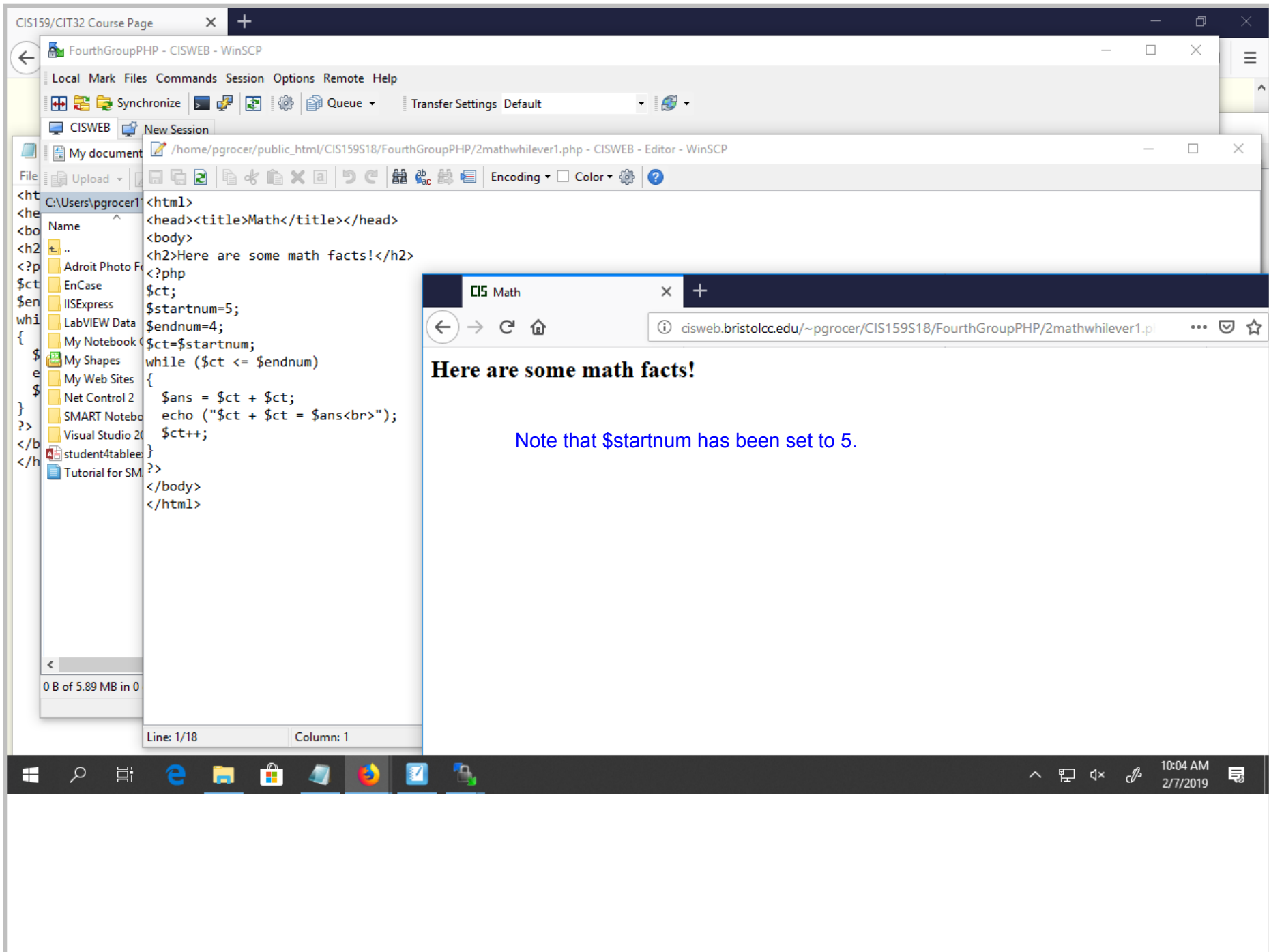
The image shows a WinSCP window with an editor displaying a PHP script and a browser window showing the script's output. Handwritten blue and red annotations explain the loop structure.

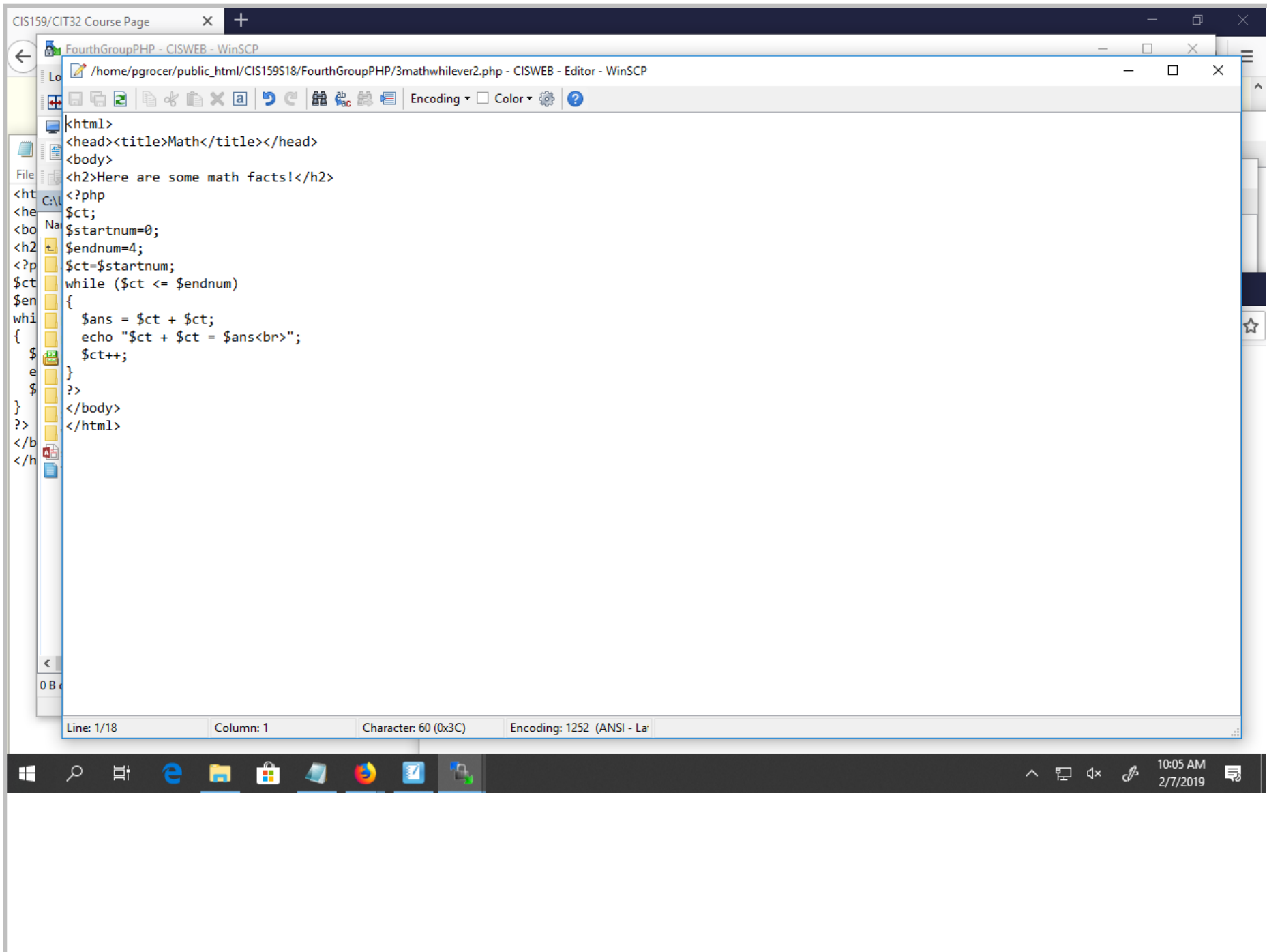
```
<html>
<head><title>Math</title></head>
<body>
<h2>Here are some math facts!</h2>
<?php
$ct = 0;
$endnum=4;
while ($ct <= $endnum)
{
    $ans = $ct + $ct;
    echo ("{$ct} + {$ct} = {$ans}<br>");
    $ct = $ct + 1;
}
?>
</body>
</html>
```

Here are some math facts!
0 + 0 = 0
1 + 1 = 2
2 + 2 = 4
3 + 3 = 6
4 + 4 = 8

Handwritten Annotations:

- Loop:** A red circle around the word "loop".
- 3 things:** A blue circle around the text "3 things".
- Set control:** A blue arrow points from this text to the line `$ct = 0;` in the PHP code.
- Test control:** A blue arrow points from this text to the line `while ($ct <= $endnum)` in the PHP code.
- Change control:** A blue arrow points from this text to the line `$ct = $ct + 1;` in the PHP code.
- List:** A red list of three items: ① ct or, ② amt like total or, ③ ask user.





CIS159/CIT32 Course Page

FourthGroupPHP - CISWEB - WinSCP

Local Mark Files Commands Session Options Remote Help

Synchronize Queue Transfer Settings Default

CISWEB New Session

My documents

File Upload Edit Properties Download Edit Properties New

C:\Users\pgrocer11\Documents

```

<html>
<head><title>Math</title></head>
<body>
<h2>Here are some math facts!</h2>
<?php
$ct1;
$ct2;
$ans=0;
$ct1=1;
while ($ct1 <= 4)
{
    $ct2=1;
    while ($ct2 <= 4)
    {
        $ans = $ct1 + $ct2;
        echo ("$ct1 + $ct2 = $ans<br>");
        $ct2 = $ct2 + 1;
    }
    $ct1 = $ct1 + 1;
}
?>
</body>
</html>

```

set
set

0 B of 5.89 MB in 0 of 12

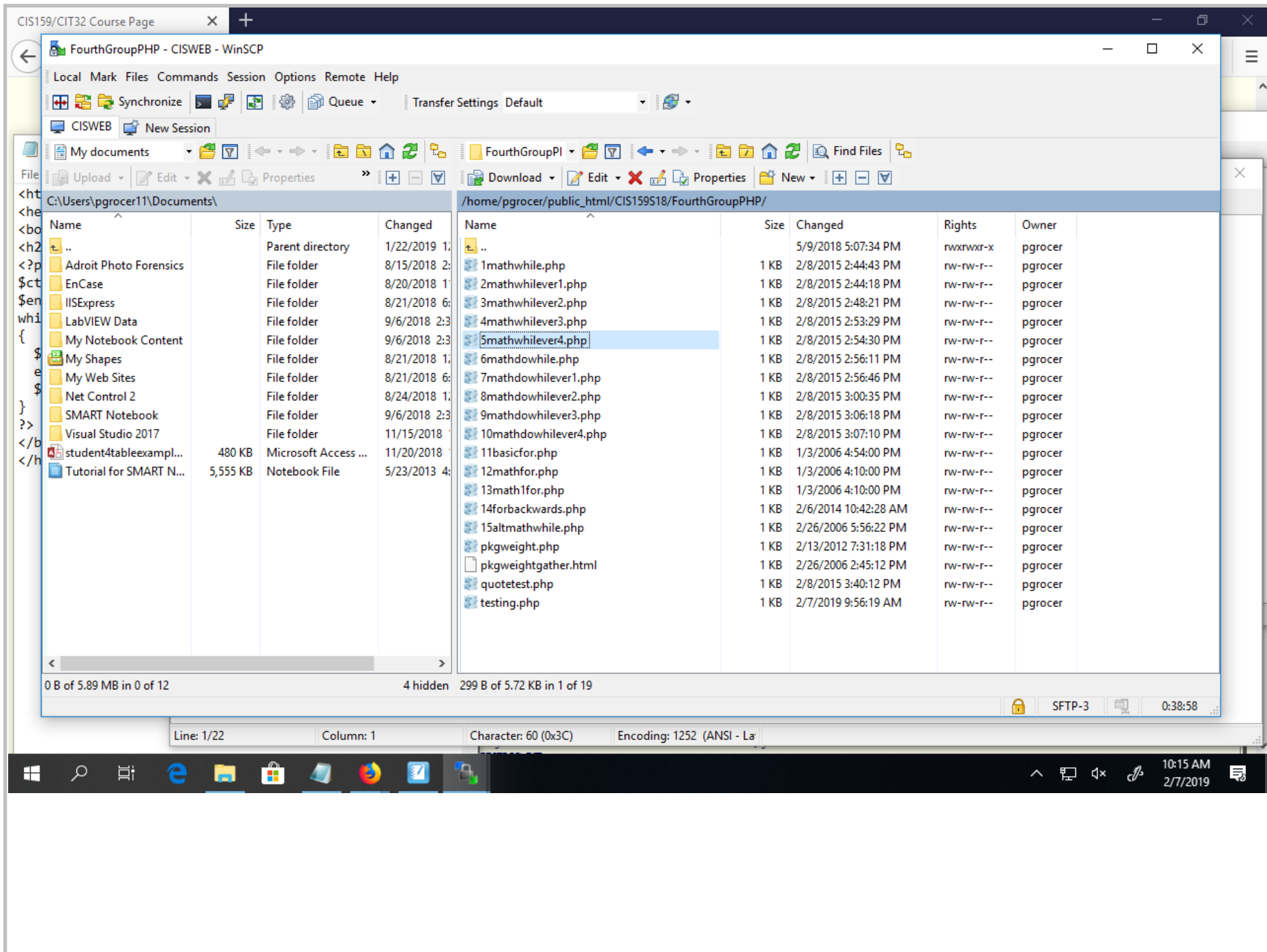
Line: 1/23 Column: 1 Character: 6

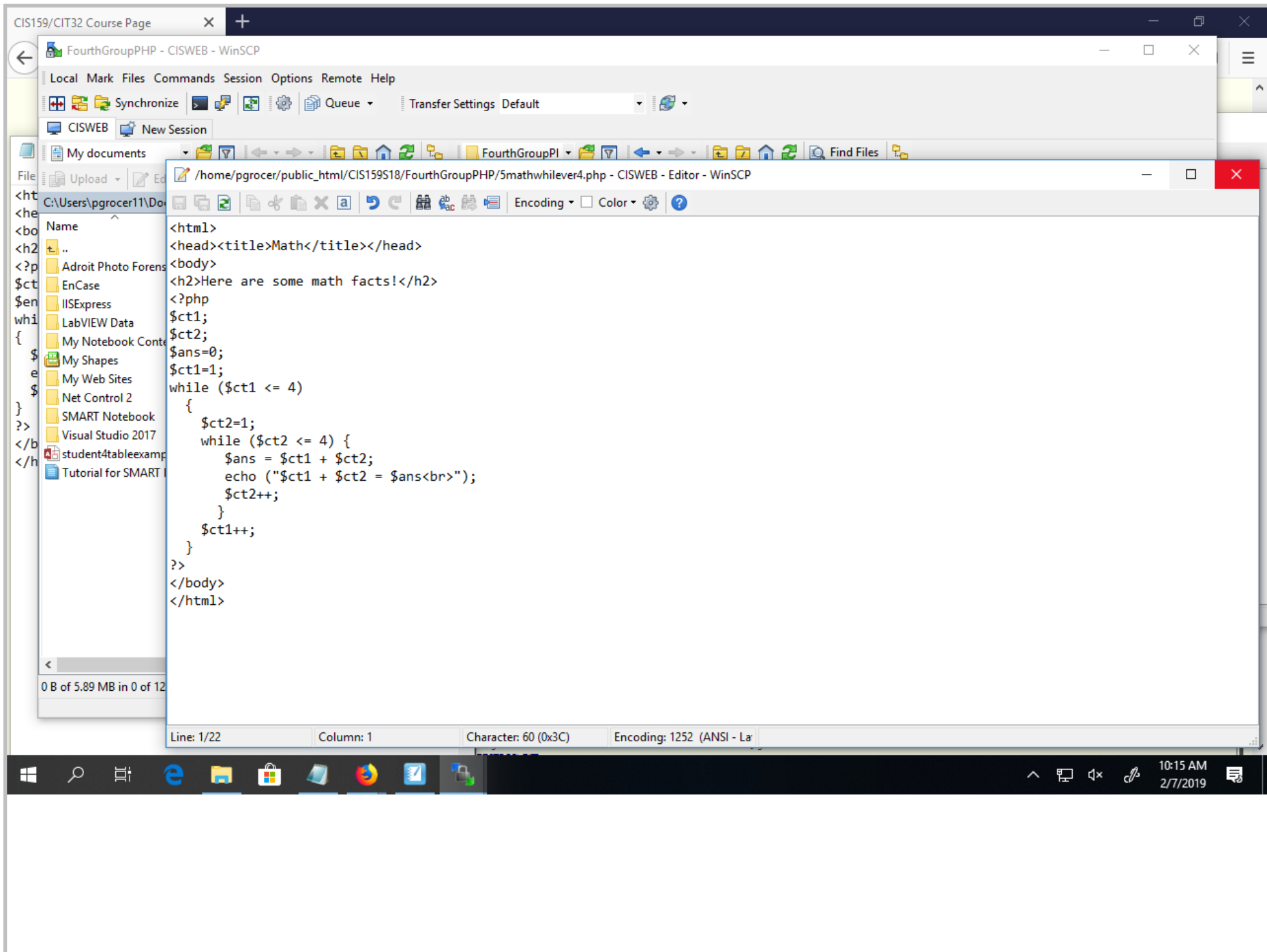
CIS Math

cisweb.bristolcc.edu/~pgrocer/CIS159S18/FourthGroupPHP/4mathwhilever

Here are some math facts!

	<u>\$ct1</u>	<u>\$ct2</u>	<u>\$ans</u>
1 + 1 = 2	1	2	2
1 + 2 = 3	1	2	3
1 + 3 = 4	1	3	4
1 + 4 = 5	1	4	5
2 + 1 = 3	2	1	3
2 + 2 = 4	2	2	4
2 + 3 = 5	2	3	5
2 + 4 = 6	2	4	6
3 + 1 = 4	3	1	4
3 + 2 = 5	3	2	5
3 + 3 = 6	3	3	6
3 + 4 = 7	3	4	7
4 + 1 = 5	4	1	5
4 + 2 = 6	4	2	6
4 + 3 = 7	4	3	7
4 + 4 = 8	4	4	8





CIS159/CIT32 Course Page

FourthGroupPHP - CISWEB - WinSCP

Local Mark Files Commands Session Options Remote Help

/home/pgrocer/public_html/CIS159S18/FourthGroupPHP/6mathdownwhile.php - CISWEB - Editor - WinSCP

SMART Ink

```
<html>
<head><title>Math</title></head>
<body>
<h2>Here are some math facts!</h2>
<pre>
<?php
$ct;
$startnum=1;
$endnum=4;
$ct=$startnum;
do
{
    $ans = $ct + $ct;
    echo "$ct + $ct = $ans<br>";
    $ct = $ct + 1;
} while ($ct <= $endnum);
?>
</body>
</html>
```

always done once

0 B of 5.8

Line: 1/19 Column: 1 Character: 60 (0x3C) Encoding: 1252 (ANSI - La

10:17 AM 2/7/2019

The image shows a WinSCP editor window with the following PHP code:

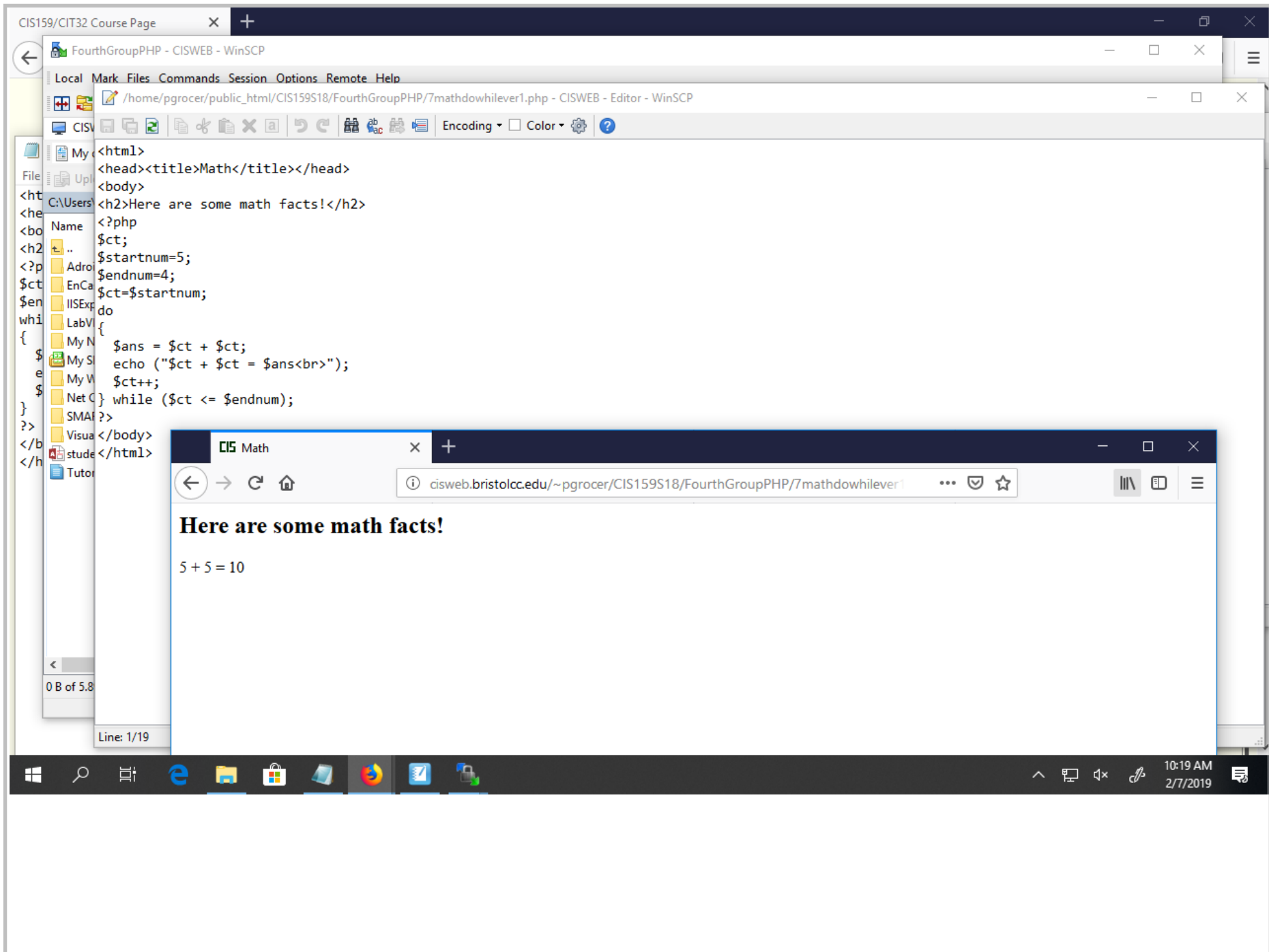
```
<html>
<head><title>Math</title></head>
<body>
<h2>Here are some math facts!</h2>
<?php
$ct=1;
$endnum=4;
while ($ct <= $endnum);
{
    $ans = $ct + $ct;
    echo "$ct + $ct = $ans<br>";
    $ct = $ct + 1;
}
?>
</body>
</html>
```

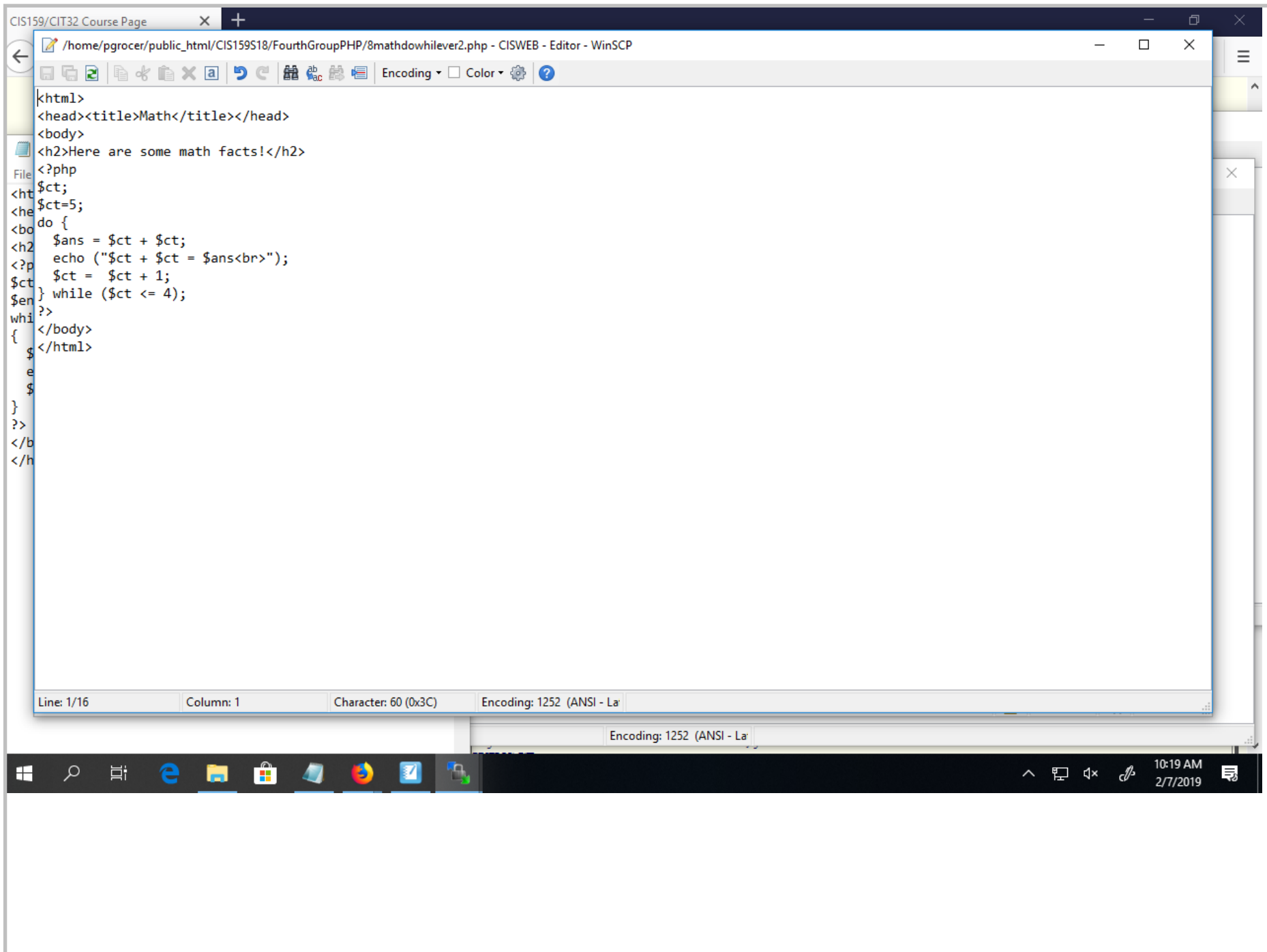
A handwritten note in blue ink says "always done once" over the while loop code.

The browser preview window shows the rendered page:

Here are some math facts!

1 + 1 = 2
2 + 2 = 4
3 + 3 = 6
4 + 4 = 8





The screenshot shows a WinSCP window in the foreground and a browser window in the background. The WinSCP window displays a PHP script in an editor. The script is as follows:

```
<html>
<head><title>Math</title></head>
<body>
<h2>Here are some math facts!</h2>
<?php
$ct1 = 1;
$ct2 = 1;
do
{
    $ct2 = 1;
    do
    {
        $ans = $ct1 + $ct2;
        echo ("{$ct1} + {$ct2} = {$ans}<br>");
        $ct2++;
    } while ($ct2 <= 4);
    $ct1++;
} while ($ct1 <= 4);
?>
</body>
</html>
```

Handwritten red annotations are present in the code editor:

- A red line under the first two lines of the PHP code (\$ct1 = 1; and \$ct2 = 1;) with the text "set not used" written next to it.
- A red underline under the line \$ct2 = 1; inside the inner while loop.

The browser window, titled "CIS Math", shows the rendered output of the script:

Here are some math facts!

1 + 1 = 2
1 + 2 = 3
1 + 3 = 4
1 + 4 = 5
2 + 1 = 3
2 + 2 = 4
2 + 3 = 5
2 + 4 = 6
3 + 1 = 4
3 + 2 = 5
3 + 3 = 6
3 + 4 = 7
4 + 1 = 5
4 + 2 = 6
4 + 3 = 7
4 + 4 = 8

The image shows a Windows desktop environment with two windows open. The background window is WinSCP, displaying a PHP file named '10mathdownwhilever4.php'. The code in the editor is as follows:

```
<html>
<head><title>Math</title></head>
<body>
<h2>Here are some math facts and there is a problem!</h2>
<?php
$ct1 = 1;
$ct2 = 1;
do
{
    $ans = $ct1 + $ct2;
    echo ("{$ct1} + {$ct2} = {$ans}<br>");
    $ct2++;
} while ($ct2 <= 4);
$ct1++;
} while ($ct1 <= 4);
?>
</body>
</html>
```

A blue handwritten note is written over the code: "1+2=1 That says \$ct2=1". The status bar at the bottom of the WinSCP window shows "Line: 20/20" and "Column: 8".

The foreground window is a web browser titled "CIS Math". The address bar shows the URL: "cisweb.bristolcc.edu/~pgrocer/CIS159S18/FourthGroupPHP/10mathdownwhilever4.php". The page content is:

Here are some math facts and there is a problem!

1 + 1 = 2
1 + 2 = 3
1 + 3 = 4
1 + 4 = 5
2 + 5 = 7
3 + 6 = 9
4 + 7 = 11

The Windows taskbar at the bottom shows the time as 10:25 AM on 2/7/2019.

The image shows a WinSCP editor window on the left and a web browser window on the right. The editor window displays PHP code for a for loop. The code is as follows:

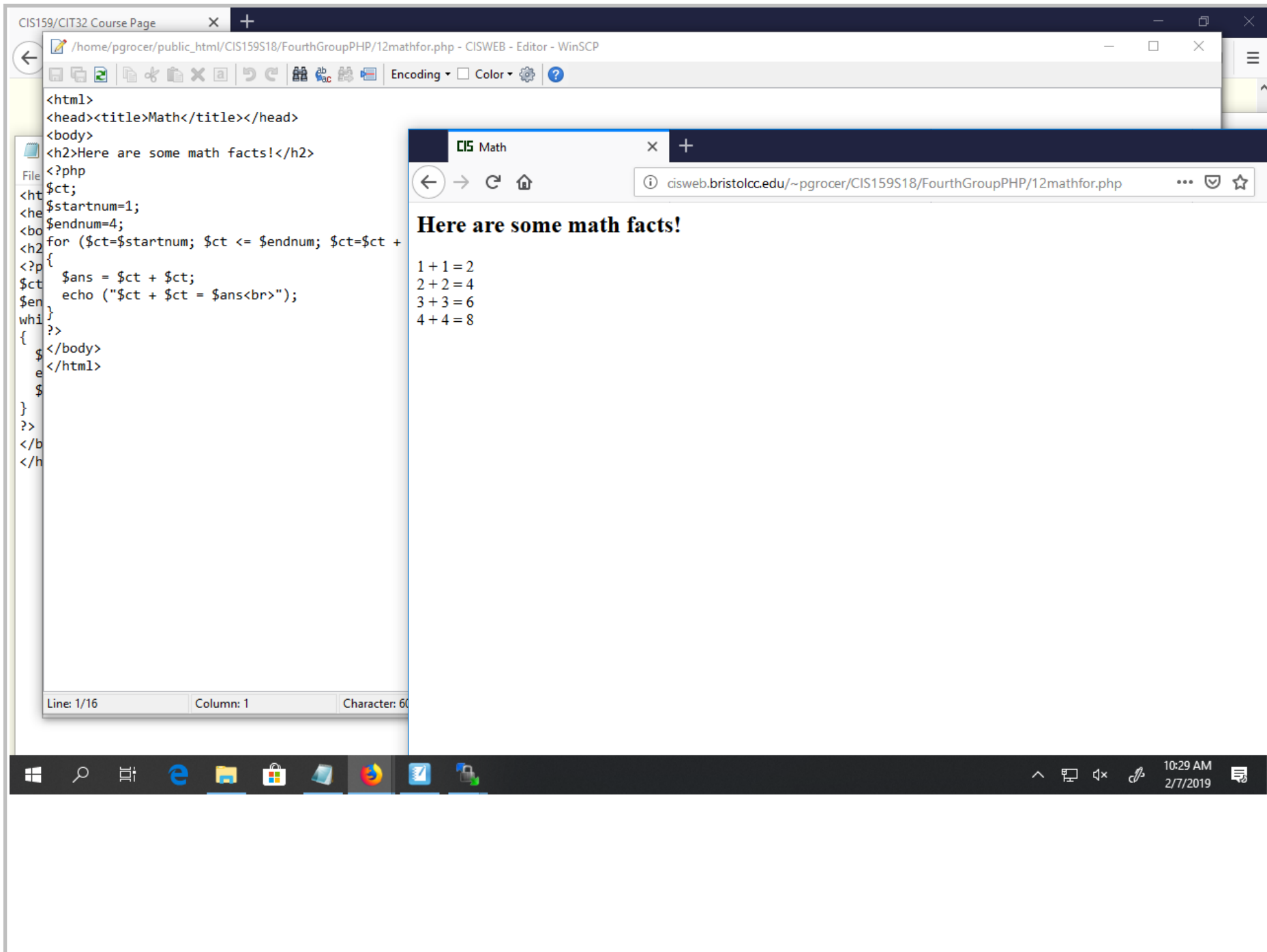
```
<html>
<head><title>For loop</title></head>
<body>
<h2>Here are the numbers from 1 to 10</h2>
<?php
$ct;
for ($ct=1; $ct <= 10; $ct=$ct + 1)
{
    echo $ct;
    echo "<br>";
}
$ct;
for ($ct=1; $ct <= 10; $ct++)
{
    echo $ct;
    echo "<br>";
}
?>
</body>
</html>
?>
```

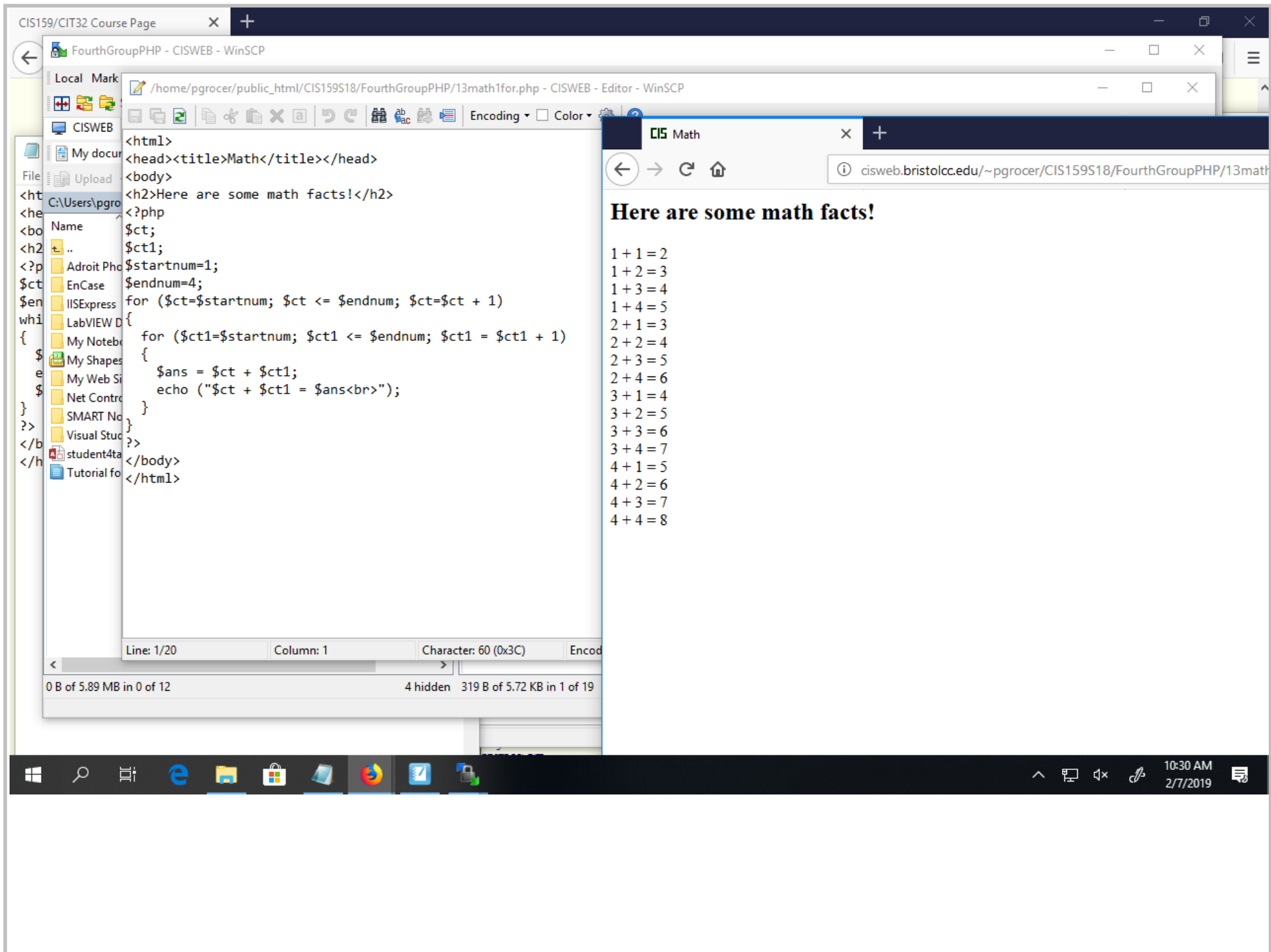
Handwritten red annotations are present over the code. The word "set" is written above the first for loop's initialization part. The words "check" and "change" are written above the second for loop's condition and increment parts, respectively.

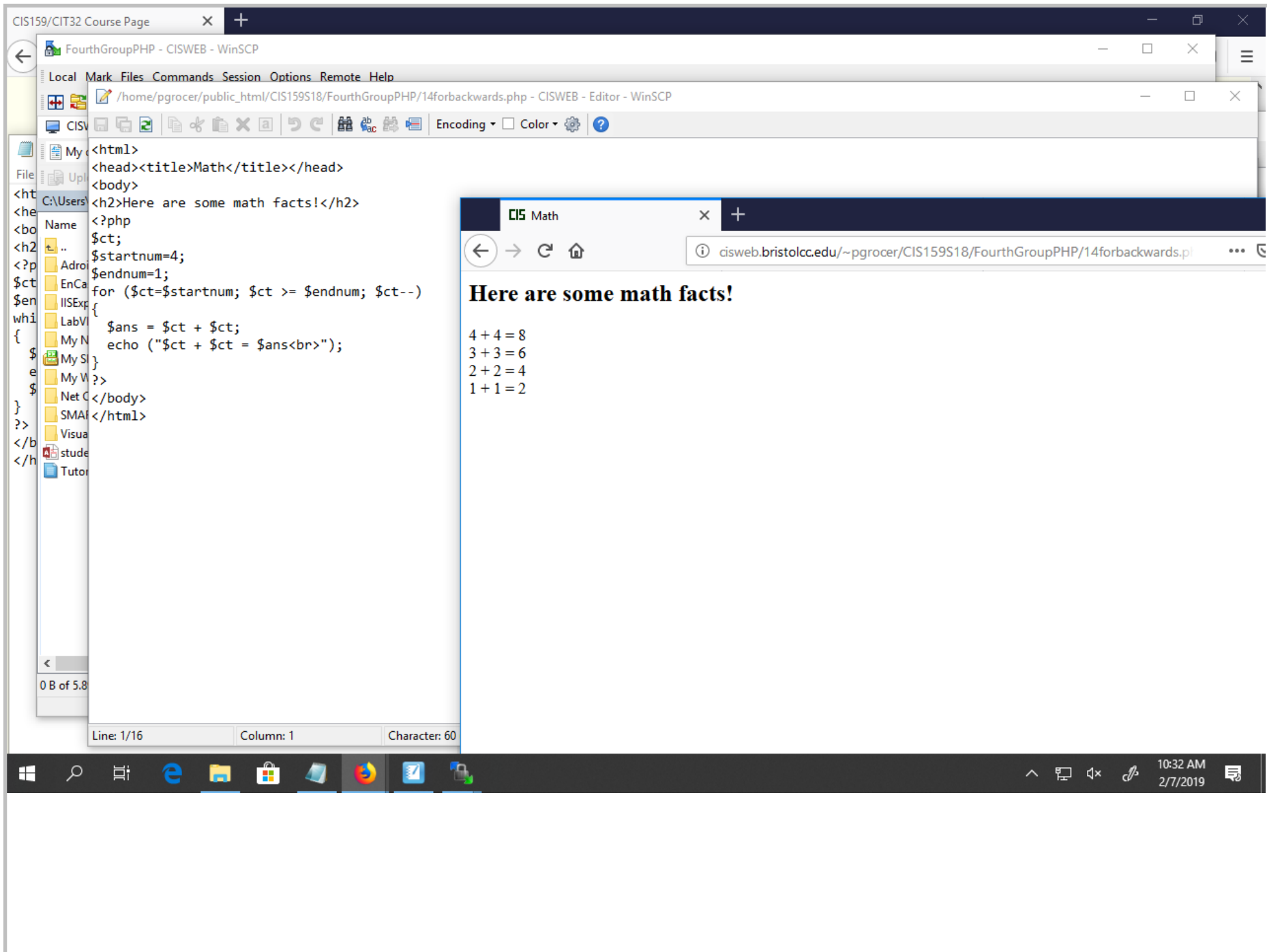
The web browser window on the right shows the output of the PHP code, displaying the numbers 1 through 10, each on a new line.

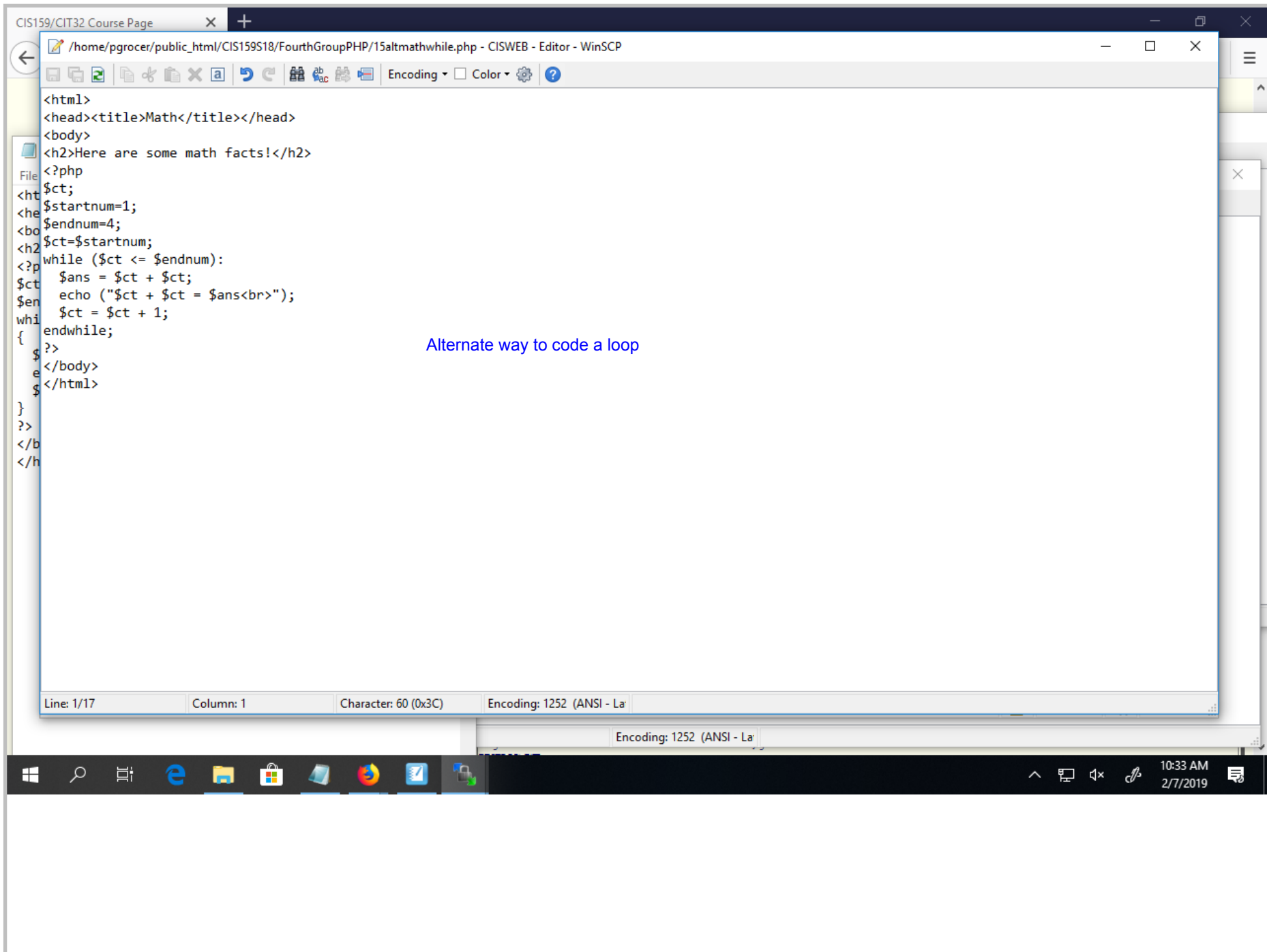
Line: 1/19 Column: 1 Character: 60 (0x3C) Encodin

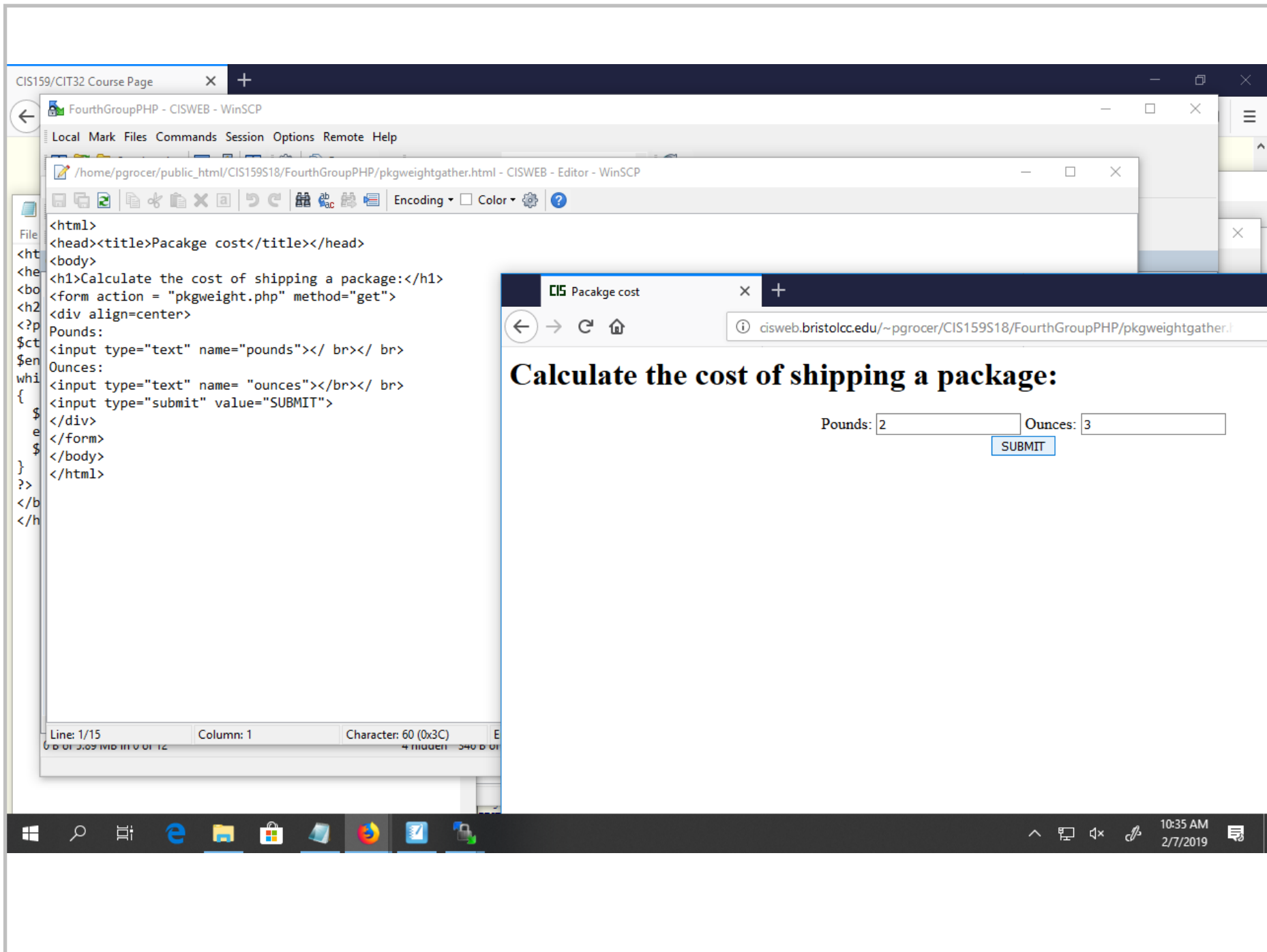
10:27 AM
2/7/2019











The image shows a web browser window with two panes. The left pane is a code editor displaying PHP code for a script named 'pkgweight.php'. The code defines variables for weight and cost, processes user input, and uses conditional logic to calculate the final weight and cost based on specific rules. The right pane shows the rendered output of the script in a browser window titled 'CIS Package'. The page title is 'Package Weight and Cost!' and the content displays the results of the calculations.

```
<html>
<head><title>Package</title></head>
<body>
<h2>Package Weight and Cost!</h2>
<?php
<ht $firstlb = 1.5;
<he $every4oz = 0.5;
<bo $wkweight = 0;
<h2 $wkcost = 0;
<?p $wklb = $_GET['pounds'];
$ct $wkoz = $_GET['ounces'];
$en $wkweight = $wklb *16 + $wkoz;
whi $print "The weight in ounces is: ";
{ $print $wkweight;
$ $print "</br>";
e $if ($wkweight < 17)
$ {
$ $wkcost = $firstlb;
}
?> }
else
</b {
</h $wkweight = $wkweight - 16;
$wkcost = $firstlb;
while ($wkweight > 0)
{
$wkcost = $wkcost + $every4oz;
$wkweight = $wkweight - 4;
}
}
print "The cost is ";
print $wkcost;
?>
</body>
```

CIS Package

Package Weight and Cost!

The weight in ounces is: 35
The cost is 4

Line: 1/34 Column: 1 Character: 60 (0x3C) Encoding: 125
0 B of 3.89 MB in 0 of 12 4 hidden 586 B of 3.72 KB in 1 of 13