Source File:	~/public_html/lab07.php
Input:	URL
Output:	Standard Output
Value:	2

For a given integer n > 1, the smallest integer d > 1 that divides n is a prime factor. We can find the **prime factorization** of n if we find d and then replace n by the quotient of n divided by d, repeating this until n becomes 1. Write a program that determines the prime factorization of n in this manner.

Your program will accept an integer from the URL via which the program is accessed. For the input number, determine its prime factorization. The output should be formatted as shown in the instructor's version of this program.

Some additional notes for this assignment:

- Insert an HTML comment at the top of the document identifying you as the author, the class, and the assignment number.
- Add an echo statement to the beginning of the script section that will display your name, the course number, and the assignment number.
- Since this assignment uses several PHP code blocks, it's always a good idea to check for syntax errors. You can do this by using the -1 option to the php command at the command line as in

newuser@csunix ~/public_html> php -l lab07.php
No syntax errors detected in lab07.php

• You should always validate the rendered HTML code. The validator is discussed near the top of p. 6 and in Appendix A on pp. 629–631. By including the following link and image, a user will be able to click the image and receive a report from the validator.

```
1 <?php
2 $location = 'https://' . $_SERVER['HTTP_HOST'] . $_SERVER['REQUEST_URI'];
3 $location = urlencode($location);
4 echo '<a href="https://validator.w3.org/nu/?doc=' . $location . '">';
5 ?>
6 <img src="https://www.w3.org/QA/Tools/I_heart_validator"
7 alt="I heart Validator logo" height="31" width="80" />
8 </a>
```

After the document is valid, open it in your Web browser to see how it renders.

Upon completion of this assignment, submit your source file via Blackboard.