

Source File: ~/public.html/lab10.php
Input: URL
Output: Standard Output
Value: 3

The purpose of this lab is to write a program that will accept a string that represents an integer and write the word equivalent of the numeric amount.

The simplest way to approach this problem is to write a function that receives a three-digit number. The function will write the word equivalent of the three-digit number.

Assume an example of an input number (a string) 123456789012. The following series of steps could then be used to write this 12-digit number:

```
1 $xyz = substr($num, 0, 3);
2 writeWordEquivalent((int) $xyz);
3 echo 'billion';
4 $xyz = substr($num, 3, 3);
5 writeWordEquivalent((int) $xyz);
6 echo 'million';
7 $xyz = substr($num, 6, 3);
8 writeWordEquivalent((int) $xyz);
9 echo 'thousand';
10 $xyz = substr($num, 9, 3);
11 writeWordEquivalent((int) $xyz);
```

where `$num` is the value obtained from the `QUERY_STRING`.

Your program will accept a string from the URL via which the program is accessed. This algorithm will work for strings of any number of digits; however, your program should verify that the input string has 12 or fewer characters. 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 `-l` option to the `php` command at the command line as in

```
1 newuser@csunix ~/public_html> php -l lab10.php
2 No syntax errors detected in lab10.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   
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.