Source Files: ~/public_html/lab03.php
Value: 2

Complete Exercise 1-6 on p. 71, repeated here for convenience. "Write a script that uses a conditional operator to determine whether a variable contains a number and whether the number is even. You need to use the `is_numeric()` function and the conditional operator. For floating-point numbers, you need to use the `round()` function to convert the value to the nearest whole number. Save the document as `IsEven.php`."

Additional notes for this assignment:

- From the above description you are asked to save the document as `IsEven.php`. You may save the file with a filename of your choosing, but it does need to have a filetype of `php`. The instructor's suggested filename is shown above.

- Insert an HTML comment at the top of the document identifying you as the author, the class, and the assignment number. See the sample code for Lab 01.

- 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 lab03.php
2  No syntax errors detected in lab03.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.

- A good reference for PHP is the manual located at `https://php.net/manual/en/`.

- You can only use the conditional operator (aka ternary operator). You might consider using several of these operators to solve this problem. This operator is discussed on p. 52. Another reference for this operator is `https://php.net/manual/en/language.operators.comparison.php`.

- Look closely at the example program on the instructor's web page about determining whether a year was/is/will be a leap year. You will want to pattern your assignment after this code.

- More information about the `$_SERVER` array and the `QUERY_STRING` index is available at `https://php.net/manual/en/reserved.variables.server.php`.

- More information about the `is_numeric()` function is available at
  `https://php.net/manual/en/function.is-numeric.php`.

- More information about the `round()` function is available at
  `https://php.net/manual/en/function.round.php`. Use the `round()` function if the input is a floating point number.

- You may find it helpful to use the `is_float()` function. Documentation for this function is available at
  `https://php.net/manual/en/function.is-float.php`. You'll want to use this function carefully. If you write a statement such as

  $$\text{is\_float}(\$\texttt{number})$$

  it most likely won't produce the desired result. You will need to write the statement as

  $$\text{is\_float}(\$\texttt{number} + 0)$$

  This is because PHP treats `$number` as a string. You need the argument to `is_float` to be a numeric value. By doing the arithmetic operation of adding 0 to `$number`, it causes PHP to treat the argument to `is_float` as a number. The idea for this came from one of the User Contributed Notes at the referenced manual page for `is_float`.

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