Source File: ~/public_html/lab06.php

Input: URL

Output: Standard Output

Value: 3

Write a program that will accept three positive integers that represent a date. The input to your program will be a string via a URL. This string should be tokenized using the space character as a delimiter. Let the first integer represent the month, the second the day, and the third the year. Determine the day of the week on which the given date fell/falls/will fall. Print the day of the week as well as the date.

The Rev. Mr. Zeller developed a formula for computing the day of the week on which a given date fell or will fall. Let a, b, c, and d be integers defined as follows:

a = the month of the year, with March = 1, April = 2, and so on, with January and February being counted as months 11 and 12 of the **preceding** year.

b =the day of the month.

c = the last two digits of the year.

d = the first two digits of the year.

Then calculate the following integer quantities:

w =the integer quotient (13a - 1)/5.

x = the integer quotient c/4.

y = the integer quotient d/4.

z = w + x + y + b + c - 2d.

r=z reduced modulo 7; that is, r is the remainder of z divided by 7; r=0 represents Sunday, r=1 or r=-6 represents Monday, r=2 or r=-5 represents Tuesday, and so on.

For example, July 31, 1929, gives a=5,b=31,c=29,d=19,w=12,x=7,y=4,z=45,r=3. Thus, July 31, 1929 occurred on a Wednesday. January 3, 1988, gives a=11,b=3,c=87,d=19,w=28,x=21,y=4,z=105,r=0. Thus, January 3, 1988 occurred on a Sunday. January 1, 1901, gives a=11,b=1,c=0,d=19,w=28,x=0,y=4,z=-5,r=-5. Thus January 1, 1901 occurred on a Tuesday.

Include the following functions:

- function dayOfWeek(\$month, \$day, \$year)
- function printDayOfWeek(\$r)

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 lab06.php
 - No syntax errors detected in lab06.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.