

SSDP :: PHP LAB 01

OBJECTIVE Demonstrate capability with PHP scripting fundamentals: external files, functions, control structures

REQUIREMENTS Create an **index.php** script and supporting files with the following behavior:

- One of two distinctly different CSS stylesheets is applied to index.php, one if it is morning, the other if it is evening. Use date() to help you determine if it is presently AM or PM.
- Greet the user with the current date and time of day by displaying a message that follows this format:
Good morning! It is March 5, 2019.
- Load a function from an external file (described below) and demonstrate the function by invoking it in as many different ways as possible (eg: with valid parameter data, optional parameters, invalid parameter data).
- Write a function that calculates the area of a circle ($\pi * \text{radius squared}$) and displays the results. This function's parameter list should require a numeric radius, and optionally a number that describes how many decimal places to round off the resulting calculation. The default rounding is to be at 2 decimal places.
- The function should perform reasonable error checking on the incoming data and if problems are detected display an error message instead of calculating the area of the circle
- Use the following PHP built functions for calculating and formatting the area:
 - <http://php.net/manual/en/function.pow.php>
 - <http://php.net/manual/en/function.round.php>
- At the end of the page, perform a countdown from the current day of the month down to zero, displaying each number as a list item in an HTML unordered list (eg: if it is January 17th, count down from 17 to 0)

CODE STYLE Ensure your PHP scripts are well coded: use descriptive variable names and constants, use carriage returns and tabs to make code readable, and use comments to explain important sections of your code. Avoid using magic numbers. All .php output to the browser should result in structurally valid and semantic HTML.

Use relative paths for your lab URLs. Do **not** use root based paths that begin with /, and do **not** use fully qualified localhost paths like <http://localhost/mylab>

SUBMIT Compress all related files and folders into a .zip file and upload to D2L drop box before the end of day (11:59pm).