

1. Term Test 2 Submission

(10 marks)

- a. You are to create new PHP file called **termtest2.php**
- b. Be sure that your new **termtest2.php** page incorporates your **header.php** and **footer.php** files
- c. Your **header.php** file should be changed to include a link in your navigation bar to the new **termtest2.php** file (to make it part of your site).

**NOTE:** your pages should incorporate your CSS (this should be already done), and look like your existing pages.

- d. Your header.php should be given appropriate variables that make the page's **<title>** element, the page's banner and HTML comments (including filename, date created, a brief file description ) dynamic (similar to your lab assignments).

**NOTE:** the **<title>** should be "YOUR\_NAME's Test 2 – Hourly Wage Calculator"

- e. Include in the **termtest2.php** file PHP comments (i.e. **/\* C-style comments\*/**) that include your name, the date and the course code.
- f. Your page should include a description paragraph and a form like the page found at:

<https://opentech.durhamcollege.org/inft1206/nadia/termtest2.php>

**NOTE:** YOU ARE ALLOWED VIEW THE SOURCE FOR THE PAGE ABOVE, AND COPY THE DESCRIPTION PARAGRAPH AND THE FORM, PASTING IT INTO YOUR **termtest2.php** FILE. Read the rest of the document carefully, as there may be things in the raw HTML you have to change to meet all the test requirements.

**NOTE:** you are to wrap your header.php and footer.php around this provided content, comments have been included to help guide you removing excess HTML.

- g. Ensure sure that your **footer.php** file includes the clickable XHTML validation logo (to be used for marking).
- h. Verify that your page validates to the XHTML 1.0 Strict standard, using the validator found at <https://validator.w3.org/> (maximum 3 marks lost depending how many errors there are)
- i. For full marks you should publish your modified website out onto the course webserver, into your working directory (i.e. **/var/www/html/inft1206/lastnamefirstinitial**)  
BE SURE TO PUBLISH BOTH YOUR **termtest2.php**, **header.php** and **footer.php** files (as they all should have been changed)
- j. For backup purposes, also compress/zip your "lastnamefirstinitial" folder (your whole website with all of your test work included), attach the file into the "Term Test 2 – Practical Portion" drop box in DC Connect.
- k. Place a clickable link in the comment section of DC Connect to your **termtest2.php** file on **opentech**

2. PHP Constant and Display Copyright Function (10 marks)

- a. In **termtest2.php** define a PHP constant named **STUDENT\_MINIMUM\_WAGE** and set its value to **15.50**. This is to be used:
  - i. in the paragraph above the form
  - ii. as part of the data validation
  - iii. and part of the error message if someone enters a number less than the student minimum wage
- b. In your **header.php** file, in a PHP `<?php... ?>` section create a function named **displayCopyright()** that takes no arguments but echo'es the &copy; copyright symbol, **YOUR\_NAME** (not the instructors) and the year (in that order). This is to be used is to replace the copyright information at the bottom of your page in the page footer.  
**BE SURE TO PLACE THIS FUNCTION IN THE header.php FILE SO IT CAN BE USED BY ALL OF YOUR PAGES NOT JUST termtest2.php**
- c. Make sure you replace your current copyright information in your **footer.php** file with a call to your new **displayCopyright()** function.

3. PHP Form (10 marks)

- a. You are to create an HTML form that satisfies the following:
  - i. Contains two (2) appropriately named text input boxes, one for an hourly rate, one for the hours worked
  - ii. The form should also include a submit button which displays **"Calculate Wages"**
  - iii. This form should be submitted to itself (achieved by **echo'ing** one of the **\$\_SERVER[]** array elements) **i.e. make it a "self-referring" form**
  - iv. The form should be submitted in the **"post"** mode
  - v. The form is to be centered on the page.
  - vi. The form should be set up as **"sticky"**

4. Data Validation and Form Stickiness

(20 marks)

- a. Go to <https://opentech.durhamcollege.org/inft1206/nadia/termtest2.php> to verify how the page works, taking note of what the errors are.
- b. When the page loads in “GET” mode (i.e. the first time) you should declare two appropriately named, empty strings (“”) for a hours worked and hourly rate (that are to be echo’ed in the value attributes of the text input boxes created as part of the form)
- c. When the form is submitted in “POST” mode, the page should retrieve the text inputted into the wage and rate text boxes (with any white-space removed or trimmed)
- d. Data validation for the inputted values:
  - i. Neither text box should be empty (something has to be entered), if not, create an error (each on their own separate line) including the invalid data as part of the error message..
  - ii. Both values entered must be a number (if not concatenate to the error). Include the invalid data as part of the error message.
  - iii. Hours worked must be greater than zero (0). Include the invalid data as part of the error message.
  - iv. The hourly rate must be greater than 15.50 (use the constant **STUDENT\_MINIMUM\_WAGE** to check this).

**NOTE: your page should handle multiple errors at a time. To achieve this, be sure to concatenate each error to the end of the error string**

- e. Any inputted data that was invalid should be displayed as part of the error message, and emptied out of the form (i.e. do NOT make the errors sticky). If only one input was invalid, make sure the valid data remains on the page in the form (i.e. make it “sticky”)
- f. If there are errors, they should be displayed in an <h3> element above the form, and no calculation should occur.
- g. If there are no errors (i.e. the data was valid), the wages should be calculated (by multiplying the hours worked by the hourly rate) and displayed above the form in an <h2> element. For full marks include (as part of the message): the rate and hours worked; the wages earned, and, format the wages earned and the hourly rate with a dollar sign and two decimal places.

**NOTE: to format to two (2) decimal places, use the function `number_format($num, 2)` where `$num` is the number you want to have 2 decimal places.**

e.g.  
`number_format(15.5, 2);`  
*Would display “15.50”*

- h. If the calculation occurs, the variables retrieved from the form should be echo’ed back into to input boxes, to make the form sticky.