Submission Worksheet

IT202-452-M2024 - [IT202] Module 2 PHP Problems

Submissions:

Submission Selection

1 Submission [active] 5/27/2024 12:29:16 PM ▼

Instructions

^ COLLAPSE ^

Overview video: https://youtu.be/aUn31pOxxJo Guide:

1. Make sure you're in the dev branch locally and `git pull origin dev` any pending changes.
2. Make a new branch per the recommended branch name below (`git checkout -b ...`).
3. Grab the template code from
    https://gist.github.com/MattToegel/48b48377eaa1937c886b7840c449750a.
4. Create individual PHP files for each problem and save the files inside your `public_html` folder
    in a subfolder of your choice.
    1. If you don't have this folder yet, refer to the setup lessons (you'll need a few files for the
        deployment to work).
5. Move the unedited template files to GitHub.
    1. `git add .`
    2. `git commit -m "adding template files"`
    3. `git push origin branch_name` (see below)
    4. Create and open a pull request from the homework branch to main (leave it open until later
        steps).
6. Note: As you work, it's recommended to add/commit at least after each solution is done (i.e., 3+
    times in this case).
    1. Make sure the files are saved before doing this.
7. Fill in the items in the worksheet below (save as often as necessary).
8. Once finished, export the worksheet.
9. Add the output file to any location of your choice in your repository folder (i.e., a `Module2`
    folder).
10. Check that git sees it via `git status` .
11. If everything is good, continue to submit.
    1. Track the file(s) via `git add`

2. Commit the changes via `git commit` (don't forget the commit message).
3. Push the changes to GitHub via `git push` (don't forget to refer to the proper branch).
4. Create a pull request from the homework related branch to main (i.e., main <- "homework branch").
5. Open and complete the merge of the pull request (it should turn purple).
6. Locally checkout main and pull the latest changes (to prepare for future work).
12. Take the same output file and upload it to Canvas.

Branch name: M2-PHP-Problems

Tasks: 5 Points: 10.00

● **Problem 1** (3 pts.)

^COLLAPSE ^

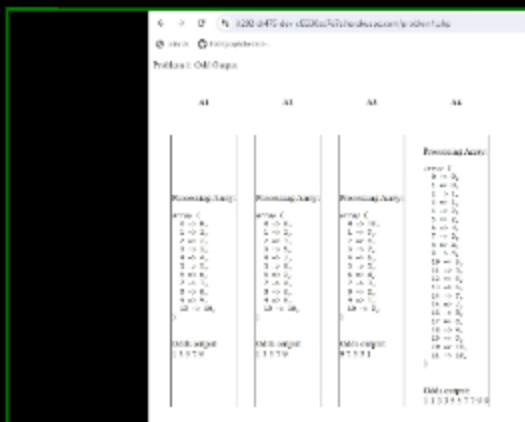● **Task #1 - Points: 1**

^COLLAPSE ^

Text: Problem 1 Evidence

ℹ️ **Details:**
Only make edits where the template code mentions.

Solution should ensure that any passed in array will have only the odd values output.
Requires at least 2 screenshots (code + output from heroku dev)
Live URL must be Herokue Prod

#1) Show the output from heroku dev (url must be visible)

#2) Show the code solution (ucid/date as comment must be present)

```php
<?php
$a1 = [0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10];
$a2 = [0, 1, 3, 5, 7, 9, 2, 4, 6, 8, 10];
$a3 = [10, 9, 8, 7, 6, 5, 4, 3, 2, 1, 0];
$a4 = [0, 0, 1, 1, 2, 2, 3, 3, 4, 4, 5, 5, 6, 6, 7, 7, 8, 8, 9, 9, 10, 10];
function processArray($arr) {
    echo "<br>Processing Array:<br><pre>" . var_export($arr, true) . "</pre>";
    echo "<br>Odds output:<br>";
    //start edits
    // DB475 - 05/27/24
    foreach ($arr as &$item){
        if ($item % 2 != 0){
            echo "$item ";
        }
    }
    //end edits
}
echo "Problem 1: Odd Output<br>";
?>
```

Caption (required) ✓
Describe/highlight what's being shown

Caption (required) ✓
Describe/highlight what's being shown

Heroku dev deployment showing problem 1 being solved

URL (required) ✓
URL must be Heroku prod
https://it202-dr475-
prod-7559be2e2ad4.herokuapp.com/problem1.php

The edited code to solve problem 1

Explanation (required) ✓
Explain in concise steps how this logically works
I created a foreach loop to iterate over the passed array $arr, assigning each value to the variable "$item". $item is only printed out if the value modulus 2 is not 0 (since if the value % 2 == 0, it is even).

● **Problem 2** (3 pts.)
∧COLLAPSE ∧

● **Task #1 - Points: 1**
∧COLLAPSE ∧
Text: Problem 2 Evidence

ℹ **Details:**
Only make edits where the template code mentions.

Solution should ensure that any passed in array will have the numerical values summed and rounded to two decimals (similar to currency)
Requires at least 2 screenshots (code + output from heroku dev)
Live URL must be Herokue Prod

#1) Show the output from heroku dev (url must be visible) 👁

#2) Show the code solution (ucid/date as comment must be present) 👁

```php
<?php          You, 40 minutes ago • Adding template files
$a1 = [10.001, 11.591, 0.011, 5.991, 16.121, 0.131, 100.981, 1.001];
$a2 = [1.99, 1.99, 0.99, 1.99, 0.99, 1.99, 0.99, 0.99];
$a3 = [0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01];
$a4 = [10.01, -12.22, 0.23, 19.20, -5.13, 3.12];
function getTotal($arr) {
    echo "<br>Processing Array:<br><pre>" . var_export($arr, true) . "</pre>";
    $total = 0.00;
    //start edits
    // DR475 - 05/27/24
    foreach($arr as &$value)
        $total += $value;
    $total = number_format((float)$total, 2, '.', '');
    //end edits
    echo "The total is $total";
}
echo "Problem 2: Adding Floats<br>";
?>
```

Caption (required) ✓
Describe/highlight what's being shown
Heroku dev deployment showing problem 2 being solved

URL (required) ✓

Caption (required) ✓
Describe/highlight what's being shown
The edited code to solve problem 2

Explanation (required) ✓
Explain in concise steps how this logically works

I created a foreach loop to iterate over the passed array $arr, assigning each value to the variable "$item". Each iteration adds the $item value to the $total variable. After the foreach loop concludes, I updated the $total variable by formatting the initial total to be rounded to only 2 decimal places.

● Problem 3 (3 pts.)

^COLLAPSE ^

● Task #1 - Points: 1

^COLLAPSE ^

Text: Problem 3 Evidence

ℹ️ **Details:**

Only make edits where the template code mentions.

Solution should ensure that any passed in array will have its values converted to a positive version of the value AND converted back to the original data type.
Requires at least 2 screenshots (code + output from heroku dev)
Live URL must be Herokue Prod

#1) Show the output from heroku dev (url must be visible) 👁️

#2) Show the code solution (ucid/date as comment must be present) 👁️

Caption (required) ✓
Describe/highlight what's being shown
Heroku dev deployment showing problem 3 being solved

URL (required) ✓
URL must be Heroku prod
https://it202-dr475-
prod-7559be2e2ad4.herokuapp.com/problem3.php

Caption (required) ✓
Describe/highlight what's being shown
The edited code to solve problem 3

Explanation (required) ✓
Explain in concise steps how this logically works
I created a for loop to iterate over the length of the passed array $arr, with each index valued at $i starting at 0. I set two variables $positive which finds the

absolute value (positive value) of the array variable at index $i, and $type which gets the type ('string', 'decimal', 'integer') of the variable in the array. I then created a switch statement that has different logic for the types. For string, $output[$i] would be the strval($positive) (sets it to a string type), and for the numerical values $output[$i] would be set to $positive (which is either a decimal or integer value).

Reflection (1 pt.)
^COLLAPSE^

Task #1 - Points: 1
^COLLAPSE^
Text: Reflect on your experience

ⓘ Details:
Talk about any issues you had, how you resolved them, and anything you learned during this process.

Provide concrete details/examples. At least a few sentences.

Response:

I had no issues while developing other than remembering and re-learning PHP syntax and its helper functions. This includes: number_format(), gettype(), strval(), and count();

Task #2 - Points: 1
^COLLAPSE^
Text: Include the pull request link for this branch

ⓘ Details:
The correct link will end with /pull/ and a number.

URL #1
https://github.com/davidredziniak/dr475-IT202-452-M2024/pull/9

End of Assignment