

# Submission Worksheet

## Submission Data

**Course:** IT202-450-M2025

**Assignment:** IT202 PHP Problems

**Student:** Wilfer G. (wg99)

**Status:** Submitted | **Worksheet Progress:** 100+%

**Potential Grade:** 11.00/10.00 (110.00%)

**Received Grade:** 0.00/10.00 (0.00%)

**Started:** 6/9/2025 6:41:42 PM

**Updated:** 6/9/2025 6:41:42 PM

**Grading Link:** <https://learn.ethereallab.app/assignment/v3/IT202-450-M2025/it202-php-problems/grading/wg99>

**View Link:** <https://learn.ethereallab.app/assignment/v3/IT202-450-M2025/it202-php-problems/view/wg99>

## Instructions

- Overview Link: <https://youtu.be/iwA6vyRPhoM>
- 1. Ensure you read all instructions and objectives before starting.
- 2. Create a new branch from dev called M2-Homework
  - 1. `git checkout dev` (ensure proper starting branch)
  - 2. `git pull origin dev` (ensure history is up to date)
  - 3. `git checkout -b M2-Homework` (create and switch to branch)
- 3. Copy the template code from here: [GitHub Repository - M2 Homework](#)
  - It includes Problems 1-4 and `base.php`. Put all into an M2 folder or similar inside your `public_html`
  - Immediately record to history
    - ☐ `git add public_html`
    - ☐ `git commit -m "adding M2 HW baseline files"`
    - ☐ `git push origin M2-Homework`
    - ☐ Create a Pull Request from M2-Homework to dev and keep it open
- 4. Fill out the below worksheet
  - Each Problem requires the following as you work
    - ☐ Ensure there's a comment with your UCID, date, and brief summary of how the problem was solved
    - ☐ Initial outline/plan of how you'll solve it via comments (add/commit after this stage)
    - ☐ Code solution (add/commit periodically as needed)
- 5. Once finished, click "Submit and Export"
- 6. Locally add the generated PDF to a folder of your choosing inside your repository folder and move it to Github
  - 1. `git add .`
  - 2. `git commit -m "adding PDF"`
  - 3. `git push origin M2-Homework`
  - 4. On Github merge the pull request from M2-Homework to dev
  - 5. On Github create a pull request from dev to prod and immediately merge. (This will trigger the prod deploy to make the heroku prod links work)
- 7. Upload the same PDF to Canvas
- 8. Sync Local

1. git checkout dev
2. git pull origin dev

## Section #1: ( 2 pts.) Problem 1 - Odds

Progress: 100%

≡ Task #1 ( 2 pts.) - Edit the `printOdds` function to output odd values of the array

Progress: 100%

### Details:

- Only make edits where noted via provided comments
- Challenge: Print odd values only in a single line separated by commas
- Step 1: sketch out plan using comments (include ucid and date)
- Step 2: Add/commit your outline of comments (required for full credit)
- Step 3: Add code to solve the problem (add/commit as needed)

### Part 1:

Progress: 100%

### Details:

Two screenshots are expected

1. Snippet of relevant code showing solution (with ucid/date comment)
2. Full output of executing the program (visit the proper file on Heroku dev after a manual deploy)

```
function printOdds($arr, $arrayNumber)
{
    printArrayInfo($arr, $arrayNumber);

    // UCID: wg99 | Date: 2025-06-09 You, 59 minutes ago - Uncommitted changes
    // PLAN:
    // 1. loop through the array or use array filter to isolate odd numbers.
    // 2. Check if a number is odd using ($num % 2 != 0)
    // 3. collect the odd numbers into a new array.
    // 4. Use implode() to output them as a single comma-separated line.

    echo "Output Array: ";
    // Start Solution Edits

    $odds = array_filter($arr, fn($num) => $num % 2 != 0);
    echo implode(", ", $odds);

    // End Solution Edits
    echo "<br>";
}
```

the snippet for the code



from the heroku dev



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## Part 2:

Progress: 100%

### Details:

- Direct link to the file in the homework related branch from Github (should end in `.php`)
- Direct link to the file on Heroku Prod (Just grab the base prod url and manually enter the path to the file)

#### URL #1

<https://it202-738691a16289.herokuapp.com/M2/problem1.php>



URL

<https://it202-738691a16289.herokuapp.com/M2/problem1.php>



#### URL #2

[https://github.com/wg99nj/IT202-HW2/blob/M2-Homework/public\\_html/M2/problem1.php](https://github.com/wg99nj/IT202-HW2/blob/M2-Homework/public_html/M2/problem1.php)



URL

[https://github.com/wg99nj/IT202-HW2/blob/M2-Homework/public\\_html/M2/problem1.php](https://github.com/wg99nj/IT202-HW2/blob/M2-Homework/public_html/M2/problem1.php)



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## Part 3:

Progress: 100%

### Details:

Briefly explain `how` the code solves the challenge (note: this isn't the same as `what` the code does)

### Your Response:

The code looks at each number in the array and checks if it's odd. If it is, it prints it out. All the odd numbers are shown in one line, with commas between them.



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## Section #2: ( 2 pts.) Problem 2 - Sum

Progress: 100%

Task #1 ( 2 pts.) - Edit the `sumValues` function to sum the array values and present them in a format with exactly two decimal places

Progress: 100%

### Details:

- Only make edits where noted via provided comments
- Challenge 1: Sum all the values of the passed in array and assign to `total`

- Challenge 2: Have the sum be represented as a number with exactly 2 decimal
- Example: 0.1 would be shown as 0.10, 1 would be shown as 1.00, etc
- Step 1: sketch out plan using comments (includeucid and date)
- Step 2: Add/commit your outline of comments (required for full credit)
- Step 3: Add code to solve the problem (add/commit as needed)

## 📄 Part 1:

Progress: 100%

### Details:

Two screenshots are expected

1. Snippet of relevant code showing solution (with uid/date comment)
2. Full output of executing the program (visit the proper file on Heroku dev after a manual deploy)

shows the solution for problem 2

[illegible]

the code execute

### Problem 5:

Original Array: 3.14159265, 2.71828183, 1.41421356, 1.73205081, 2.23606798, 0.69314718, 0.47712125

Total Raw Value: 12.41247526477

Total Modified Value: 12.41

another image to show the full display

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## Part 2:

Progress: 100%

### Details:

- Direct link to the file in the homework related branch from Github (should end in `.php`)
- Direct link to the file on Heroku Prod (Just grab the base prod url and manually enter the path to the file)

URL #1

<https://it202-738691a16289.herokuapp.com/M2/problem2.php>



URL

<https://it202-738691a16289.herokuapp.com/M2/problem2.php>



URL #2

[https://github.com/wg99nj/IT202-HW2/blob/M2-Homework/public\\_html/M2/problem2.php](https://github.com/wg99nj/IT202-HW2/blob/M2-Homework/public_html/M2/problem2.php)



URL

[https://github.com/wg99nj/IT202-HW2/blob/M2-Homework/public\\_html/M2/problem2.php](https://github.com/wg99nj/IT202-HW2/blob/M2-Homework/public_html/M2/problem2.php)



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### Part 3:

Progress: 100%

#### Details:

Briefly explain `how` the code solves the challenges (note: this isn't the same as `what` the code does)

#### Your Response:

The code adds up all the numbers in the array to get a total. Then, it formats that total to always show two digits after the decimal point (like 3.50), and prints it.



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## Section #3: ( 2 pts.) Problem 3 - Conversion

Progress: 100%

Task #1 ( 2 pts.) - Edit the `bePositive` function to make each value positive, convert it back to the original data type, and set it to the proper slot in the `output` array

Progress: 100%

#### Details:

- Only make edits where noted via provided comments
- Challenge 1: Make each value positive
- Challenge 2: Convert the values back to their original data type and assign it to the proper slot of the `output` array
- Step 1: sketch out plan using comments (include uuid and date)
- Step 2: Add/commit your outline of comments (required for full credit)
- Step 3: Add code to solve the problem (add/commit as needed)







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### ≡ Part 3:

Progress: 100%

#### Details:

Briefly explain **how** the code solves the challenges (note: this isn't the same as **what** the code does)

#### Your Response:

The code takes each value in the array, turns it into a positive number, and then converts it back to the same type it was before (like string or float). It saves the fixed value in a new array and prints that out.



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## Section #4: ( 2 pts.) Problem 4 - Strings

Progress: 100%

### ≡ Task #1 ( 2 pts.) - Edit the `transformText` function to solve the challenges

Progress: 100%

#### Details:

- Only make edits where noted via provided comments
- Challenge 1: Remove non-alphanumeric characters except spaces
- Challenge 2: Convert text to Title Case
- Challenge 3: Trim leading/trailing spaces and remove duplicate spaces
- Result 1-3: Assign final phrase to `placeholderForModifiedPhrase`
- Step 1: sketch out plan using comments (include ucid and date)
- Step 2: Add/commit your outline of comments (required for full credit)
- Step 3: Add code to solve the problem (add/commit as needed)

### 🖼 Part 1:

Progress: 100%

#### Details:

Two screenshots are expected

1. Snippet of relevant code showing solution (with ucid/date comment)
2. Full output of executing the program (visit the proper file on Heroku dev after a manual deploy)

the code display

the program being executed

another image

## Part 2:

### Details:

- Direct link to the file in the homework related branch from Github (should end in `.php`)
- Direct link to the file on Heroku Prod (visit the proper file on Heroku dev after a manual deploy)



### ⇒ Part 3:



**Details:**

Briefly explain **how** the code solves the challenges (note: this isn't the same as **what** the code does)

**Your Response:**

The code solves the challenges by first removing any non-letter or number characters except spaces, then trimming extra spaces from the beginning, end, and between words, and finally converting each phrase into Title Case so that each word starts with a capital letter.



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## Task #2 (+ 1 pt.) - Edit the `transformText` function to solve the extra credit challenge (challenge 4)

Progress: 100%

**Details:**

- Only make edits where noted via provided comments
- Challenge 4: Extract middle 3 characters (beginning starts at middle of phrase)
- Assign result to 'placeholderForMiddleCharacters'
- If not enough characters assign "Not enough characters"
- Step 1: sketch out plan using comments (include ucid and date)
- Step 2: Add/commit your outline of comments (required for full credit)
- Step 3: Add code to solve the problem (add/commit as needed)

### Part 1:

Progress: 100%

**Details:**

Two screenshots are expected

1. Snippet of relevant code showing solution (with ucid/date comment)
2. Full output of executing the program (visit the proper file on Heroku dev after a manual deploy)

```
// Don't edit the arrays below, they are used to test your code
$array1 = ["Hello world!", "php programming", "Apples@#$%^&*hijklmno", "numbers, 123 456", "mTepH CUsR T"];
$array2 = ["Hello world", "php programming", "this is a title case test", "capitalize every word", "maxed"];
$array3 = ["Hello world", "php programming", "even spaces between words"];
$array4 = ["Hello world", "php programming", "short", "a", "even"];

function transformText($arr, $arrayNumber) {
    print_r($arr);
    foreach ($arr as $index => $text) {
        // Step 1: Remove non-alphanumeric characters except spaces
        $text = preg_replace("/[^\w -]/", "", $text);

        // Step 2: Trim and reduce multiple spaces to one
        $text = preg_replace("/\s+/", " ", trim($text));

        // Step 3: Convert to Title Case
        $placeholderForModifiedPhrase = ucwords(strtolower($text));

        // Step 4: Get middle 3 characters (not first/last)
        $cleaned = str_replace(" ", "", $placeholderForModifiedPhrase); // no spaces for middle char calc
        $length = strlen($cleaned);
        if ($length < 3) {
            $placeholderForMiddleCharacters = "Not enough characters";
        } else {
            $middle = substr($cleaned, 1); // avoid first char
            $placeholderForMiddleCharacters = substr($cleaned, $length, 3);
        }
    }
}
```

resolved problem 4 again



Progress: 100%

### Details:

Briefly explain **how** the code solves the extra credit challenge (note: this isn't the same as **what** the code does)

### Your Response:

basically the same thing as the other code we done but this time it extracts the middle 3 characters (ignoring the first and last) from the cleaned string without spaces unless the phrase is too short. in which case it outputs "Not enough characters".



## Section #5: ( 2 pts.) Misc

Progress: 100%

### ≡ Task #1 ( 0.67 pts.) - Github Details

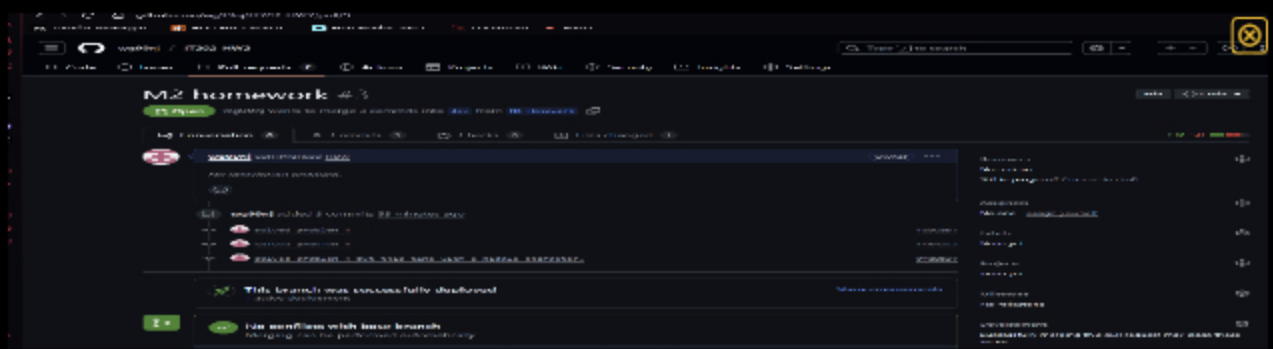
Progress: 100%



Progress: 100%

### Details:

From the Commits tab of the Pull Request screenshot the commit history Following minimum should be present



the whole pull request

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## Part 2:

Progress: 100%

### Details:

Include the link to the Pull Request (should end in `/pull/#`)

### URL #1

<https://github.com/wg99nj/IT202-HW2/pull/3>



URL

<https://github.com/wg99nj/IT202->

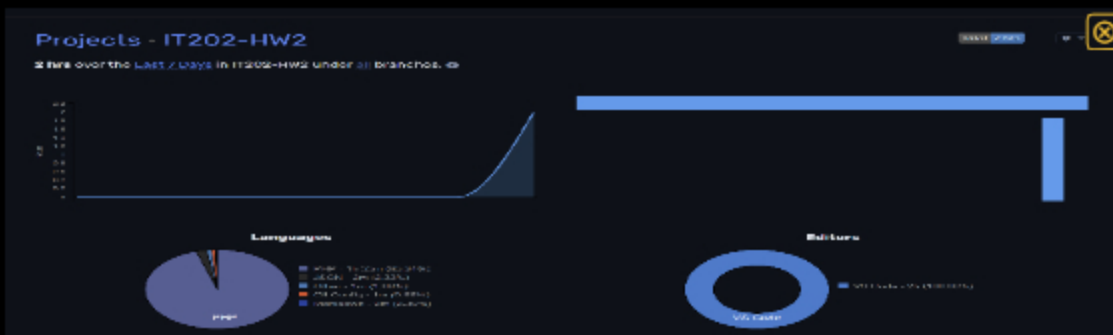
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## Task #2 ( 0.67 pts.) - WakaTime - Activity

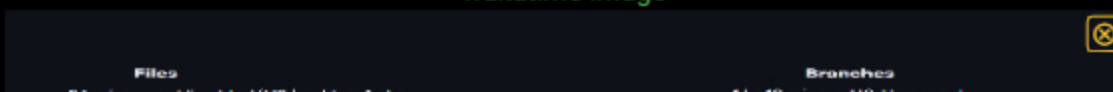
Progress: 100%

### Details:

- Visit the WakaTime.com Dashboard
- Click **Projects** and find your repository
- Capture the overall time at the top that includes the repository name
- Capture the individual time at the bottom that includes the file time
- Note: The duration isn't relevant for the grade and the visual graphs aren't necessary



waketime image



```
24 mins public_html/M2/problem1.php
23 mins public_html/M2/problem1.php
20 mins public_html/M2/problem3.php
19 mins public_html/M2/problem2.php
12 mins lib/db.php
7 mins public_html/M2/base.php
4 mins lib/config.php
2 mins composer.json
1 min public_html/index.php
1 min .gitignore
44 secs Procfile
44 secs public_html/test_db.php
34 secs composer.lock
26 secs public_html/proporant.md
```

another image



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## ☰ Task #3 ( 0.67 pts.) - Reflection

Progress: 100%

### ⇒ Task #1 ( 0.33 pts.) - What did you learn?

Progress: 100%

#### Details:

Briefly answer the question (at least a few decent sentences)

#### Your Response:

I learned how to work with arrays and different types of data in PHP. I practiced filtering numbers, adding values, and changing text by cleaning and formatting it. I also learned how to keep the original data types and how to handle strings better.



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### ⇒ Task #2 ( 0.33 pts.) - What was the easiest part of the assignment?

Progress: 100%

#### Details:

Briefly answer the question (at least a few decent sentences)

#### Your Response:

The easiest part was Problem 1. For example, I only needed to write a small piece of code to print the odd numbers from an array, which made it simple to complete quickly.



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### ⇒ Task #3 ( 0.33 pts.) - What was the hardest part of the

# assignment?

Progress: 100%

**Details:**

Briefly answer the question (at least a few decent sentences)

**Your Response:**

Ironically, the hardest part for me was setting up Heroku. It took me about 30 minutes to figure it out. Thankfully, I rewatched the setup video you sent, and that helped me solve the problem. which i'm pretty sure thats not part of the assignments but for that probably the hardest at least.



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