

# Submission Worksheet

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<https://learn.ethereallab.app/assignment/IT202-450-M2024/it202-module-2-php-problems/grade/jed56>

IT202-450-M2024 - [IT202] Module 2 PHP Problems

## Submissions:

Submission Selection

1 Submission [active] 6/3/2024 8:49:03 PM

## Instructions

^ COLLAPSE ^

Overview video: [https://youtu.be/Vvx\\_cfdLqqM](https://youtu.be/Vvx_cfdLqqM)

## 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 dev 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: 6 Points: 10.00

Problem 1 (3 pts.)

^COLLAPSE ^

Task #1 - Points: 1

Text: Problem 1 Evidence

### 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 Heroku Prod

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



```
Problem 1: Odd Output

A1      A2      A3      A4

Processing Array:
array (
  0 => 0,
  1 => 1,
  2 => 2,
  3 => 3,
  4 => 4,
  5 => 5,
  6 => 6,
  7 => 7,
  8 => 8,
  9 => 9,
  10 => 10,
)

Odds output:
Printing the odd values only:
1 3 5 7 9

Processing Array:
array (
  0 => 0,
  1 => 1,
  2 => 2,
  3 => 3,
  4 => 4,
  5 => 5,
  6 => 6,
  7 => 7,
  8 => 8,
  9 => 9,
  10 => 10,
)

Odds output:
Printing the odd values only:
1 3 5 7 9

Processing Array:
array (
  0 => 0,
  1 => 1,
  2 => 2,
  3 => 3,
  4 => 4,
  5 => 5,
  6 => 6,
  7 => 7,
  8 => 8,
  9 => 9,
  10 => 10,
)

Odds output:
Printing the odd values only:
9 7 5 3 1

Processing Array:
array (
  0 => 0,
  1 => 1,
  2 => 2,
  3 => 3,
  4 => 4,
  5 => 5,
  6 => 6,
  7 => 7,
  8 => 8,
  9 => 9,
  10 => 10,
  11 => 11,
  12 => 12,
  13 => 13,
  14 => 14,
  15 => 15,
  16 => 16,
  17 => 17,
  18 => 18,
  19 => 19,
  20 => 20,
  21 => 21,
)

Odds output:
Printing the odd values only:
1 1 3 3 5 5 7 7 9 9
```

**Caption (required)** ✓

*Describe/highlight what's being shown*

Showing output from heroku dev for prob 1

**URL (required)** ✓

*URL must be Heroku prod*

<https://it202-jed56-prod-553fb5e41cd0.herokuapp.com/M2/prob1.php>

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



```
//start edits
//note: use the $arr variable to iterate over, don't directly touch $a1-$a4
//jed56 6-3-24
echo "Printing the odd values only:<br>";
foreach ($arr as $value){
    if ($value % 2 != 0 ){
        echo $value . " ";
    }
}
//TODO add logic here to echo out only odd values
//end edits
```

**Caption (required)** ✓

*Describe/highlight what's being shown*

Showing code solution for prob 1

**Explanation (required)** ✓

*Explain in concise steps how this logically works*

EDIT RESPONSE

This foreach loop iterates through each element in the arrays and checks if the current value at each position does not divide by 2 evenly using the modulus operator. If it is not divisible by 2 then it will print the value.



Problem 2 (3 pts.)

^COLLAPSE ^



Task #1 - Points: 1

Text: Problem 2 Evidence

^COLLAPSE ^

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 Heroku Prod

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



A1	A2	A3	A4
Processing Array: array ( 0 => 10.001, 1 => 11.591, 2 => 0.011, 3 => 5.991, 4 => 16.121, 5 => 0.131, 6 => 100.981, 7 => 1.001, ) The total is 145.83	Processing Array: array ( 0 => 1.99, 1 => 1.99, 2 => 0.99, 3 => 1.99, 4 => 0.99, 5 => 1.99, 6 => 0.99, 7 => 0.99, ) The total is 11.92	Processing Array: array ( 0 => 0.01, 1 => 0.01, 2 => 0.01, 3 => 0.01, 4 => 0.01, 5 => 0.01, 6 => 0.01, 7 => 0.01, 8 => 0.01, 9 => 0.01, ) The total is 0.10	Processing Array: array ( 0 => 10.01, 1 => -12.22, 2 => 0.23, 3 => 19.2, 4 => -5.13, 5 => 3.12, ) The total is 15.21

Caption (required) ✓

Describe/highlight what's being shown

Showing the output from heroku dev for prob 2

URL (required) ✓

URL must be Heroku prod

<https://it202-jed56-prod-553fb5e41cd0.herokuapp.com/M2/prob2.php>

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



```
//start edits
//note: use the $arr variable, don't directly touch $a1-$a4
//jed56 6-3-24

//TODO do adding here
foreach ($arr as $value){
    $total += $value;
}

//TODO do rounding stuff here (round to two decimals i.e., 0.10, 0.01, 0.00)
$total = round($total, 2);
$total = number_format($total, 2, '.', '');

//end edits
```

### Caption (required) ✓

Describe/highlight what's being shown

Showing the code solution for prob 2

### Explanation (required) ✓

Explain in concise steps how this logically works

 EDIT RESPONSE

The foreach loop iterates through every element in the array, and then adds each value to the \$total variable. For the rounding I simply used the 'round' function to round the \$total variable. I then used the number\_format function to specify the format of the rounded decimal to 2 decimal places.

### Problem 3 (3 pts.)

 COLLAPSE 

### Task #1 - Points: 1

Text: Problem 3 Evidence

### Details:

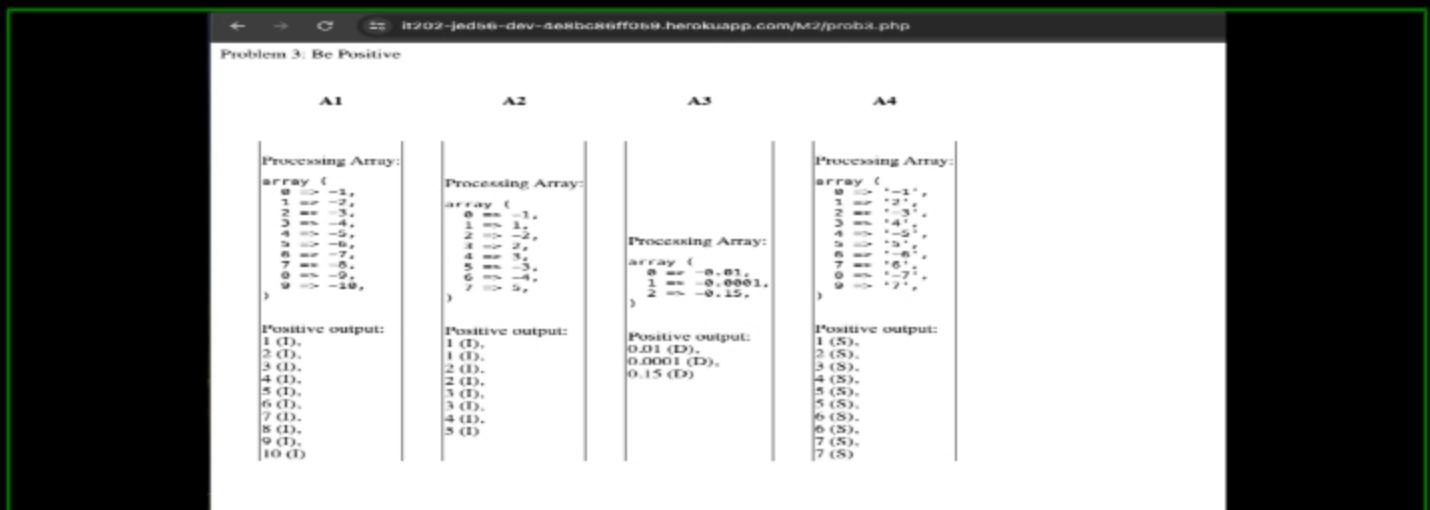
Only make edits where the template code mentions.

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 Heroku Prod

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



A1	A2	A3	A4
Processing Array: array (0 => -1, 1 => -2, 2 => -3, 3 => -4, 4 => -5, 5 => -6, 6 => -7, 7 => -8, 8 => -9, 9 => -10)	Processing Array: array (0 => -1, 1 => 1, 2 => -2, 3 => 2, 4 => 3, 5 => -3, 6 => -4, 7 => 5)	Processing Array: array (0 => -0.01, 1 => -0.0001, 2 => -0.15)	Processing Array: array (0 => '-1', 1 => '2', 2 => '-3', 3 => '4', 4 => '-5', 5 => '6', 6 => '-7', 7 => '8')
Positive output: 1 (D), 2 (D), 3 (D), 4 (D), 5 (D), 6 (D), 7 (D), 8 (D), 9 (D), 10 (D)	Positive output: 1 (D), 1 (D), 2 (D), 2 (D), 3 (D), 3 (D), 4 (D), 5 (D)	Positive output: 0.01 (D), 0.0001 (D), 0.15 (D)	Positive output: 1 (S), 2 (S), 3 (S), 4 (S), 5 (S), 6 (S), 7 (S), 7 (S)

### Caption (required) ✓

Describe/highlight what's being shown

Describe/highlight what's being shown

Showing the output from heroku dev for prob 3

URL (required) ✓

URL must be Heroku prod

<https://it202-jed56-prod-553fb5e41cd0.herokuapp.com/M2/prob3.php>

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



```
//start edits
//note: use the $arr variable, don't directly touch $a1-$a4
//TODO Take each value of the $arr, convert it to positive, and set it to the same index in the $output a
//jed56 6-3-24
foreach($arr as $value){
    if (is_string($value)){
        $output[] = (string)abs((float)$value);
    } else {
        $output[] = abs($value);
    }
}
//end edits
```

Caption (required) ✓

Describe/highlight what's being shown

showing the code solution for prob 3

Explanation (required) ✓

Explain in concise steps how this logically works

EDIT RESPONSE

The foreach loop iterates through each element in the array, and then checks the data type of the current value. If the value is a string then i convert the string value to a positive number and then back into a string so that the appropriate data type will print. If the value is not a string (it is a number) then I simply convert the value to a positive number with the abs function.



Reflection (1 pt.)

^COLLAPSE ^



Task #1 - Points: 1

Text: Reflect on your experience

Details:

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

process.

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

Response:


Overall this assignment was not very difficult. I felt that it was a very good exercise to get started in a new language and really gave me some hands on practice to learn general skills in PHP. One issue I had was converting the decimal to 2 decimal places for problem 2 and I had to search for some function that would allow me to do it properly.



^COLLAPSE ^

Task #2 - Points: 1

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/jordand2003/jed56-it202-450/pull/11>



^COLLAPSE ^

Task #3 - Points: 1

Text: Add Screenshot of Wakatime

 Details:

Note: The duration of time isn't directly related to the grade, the goal is to just make sure time is being tracked

Task Screenshots:

Gallery Style: Large View

Small

Medium

Large

Projects • IT202\_Repo

2 hrs 4 mins over the Last 7 Days in IT202\_Repo under all branches. 

showing overview time

**Files**

22 mins	public_html/M2/prob3.php
19 mins	lib/.env
19 mins	lib/db.php
15 mins	public_html/M2/prob1.php
14 mins	public_html/vars.php
12 mins	public_html/index.php
9 mins	public_html/M2/prob2.php
5 mins	public_html/hello.php
2 mins	public_html/test_db.php
1 min	lib/config.php
42 secs	.gitignore
9 secs	practice.txt
0 secs	public_html/README.md

showing time per problem

End of Assignment