

# Submission Worksheet

## Submission Data

**Course:** IT114-450-M2025

**Assignment:** IT114 Java Problems

**Student:** Fariha K. (fk222)

**Status:** Submitted | **Worksheet Progress:** 89%

**Potential Grade:** 8.00/10.00 (80.00%)

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

**Started:** 6/16/2025 10:54:24 PM

**Updated:** 6/16/2025 11:56:57 PM

**Grading Link:** <https://learn.ethereallab.app/assignment/v3/IT114-450-M2025/it114-java-problems/grading/fk222>

**View Link:** <https://learn.ethereallab.app/assignment/v3/IT114-450-M2025/it114-java-problems/view/fk222>

## Instructions

- Overview Link: <https://youtu.be/Mrahk6SEYao>
- 1. Ensure you read all instructions and objectives before starting.
- 2. Create a new branch from main called M2-Homework
  1. `git checkout main` (ensure proper starting branch)
  2. `git pull origin main` (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 a BaseClass. Put all into an M2 folder or similar (adjust package reference at the top if you chose a different folder name).
  - Immediately record to history
    - `git add .`
    - `git commit -m "adding M2 HW baseline files"`
    - `git push origin M2-Homework`
    - Create a Pull Request from M2-Homework to main 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 main
- 7. Upload the same PDF to Canvas
- 8. Sync Local
  1. `git checkout main`

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

Progress: 100%

— Section Collapsed —

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

Progress: 100%

≡ Task #1 ( 2 pts.) - Edit the `sumValues` method 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 (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

```
// Solve Challenge 1 here

// fk222 6/16/25

// 1. Loop through the array with a for loop, that iterates through each double in the array
for (double num : arr){
    // 2. Add each value to the variable "total"
    total += num;
}

// Solve Challenge 2 here

// 3. Format total to a string with 2 decimal places
// 4. Add resulting total to modifiedTotal
String modifiedTotal = String.format("%.2f", total);

// End Solution Edits
```

code snippet for #2

```
bbf@ubuntu:~/cs163/RCVS /r/TT114/#2022 TT114 450/modified (R0: 1664466)
$ java Problem2.java
Running Problem 2 Sum [46225] [2025-06-16T21:41:21-0700]
Before: Print out the initial sum of the passed array
Problem 1: Original Array: [0.1, 0.2, 0.5, 0.4, 0.6, 0.8]
Total Raw Value: 2.6
Total Modified Value: 2.60

Problem 2: Original Array: [1.0000001, 1.0000002, 1.0000003, 1.0000004, 1.0000005]
Total Raw Value: 5.0000015
Total Modified Value: 5.00

Problem 3: Original Array: [0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0]
Total Raw Value: 5.5
Total Modified Value: 5.50
```

```
Problem 2: Original Array: 21.0000, 1.0, 1.0000, 2.0, 2.0, 1.00 103
Total Sum Value: 3.00 16
Total Rounding Value: 0.00

Problem 3: Original Array: 15.1155265588795, 2.718281828459045, 1.414213562373095, 1.732050807568877, 2.23606797749979, 0.693147180559945, 0.67712125
5173660344
Total Sum Value: 32.112678284778208
Total Rounding Value: 32.93

Completed Problem 2 for (fk222) (2023-06-16 12:51:53 PM)
KPLMHW@P3NHELAPTOP: /C:/Users/fk222/AppData/Local/Programs/Python/Python311/Scripts: (P3NHELAPTOP)
PS
```

output result



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## Part 2:

Progress: 100%

### Details:

Direct link to the file in the homework related branch from Github (should end in `.java`)

### URL #1

<https://github.com/fkh222/fk222-IT114450M2-Homework/module2/Problem2.java>



### URL

<https://github.com/fkh222/fk222-IT114450M2-Homework/module2/Problem2.java>



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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 solves the challenge by iterating through each double value of a given array, and adding the value to a pre-established variable "total" After the for loop, the code formats the total value to the required decimal format by using `String.format("%.2f", total)`, which rounds total to have 2 decimal places.



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

Progress: 100%

— Section Collapsed —

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

Progress: 0%

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

Progress: 0%

**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: 0%

**Details:**

Two screenshots are expected

1. Snippet of relevant code showing solution (with ucid/date comment)
2. Full output of executing the program



Missing Caption



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**Part 2:**

Progress: 0%

**Details:**Direct link to the file in the homework related branch from Github (should end in `.java`)

URL #1

Missing URL

URL



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**Part 3:**

Progress: 0%

**Details:**

Details:

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

Your Response:

Missing Response



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## ≡ Task #2 (+ 1.11 pts.) - Edit the `transformText` method to solve the extra credit challenge (challenge 4)

Progress: 0%

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: 0%

Details:

Two screenshots are expected

1. Snippet of relevant code showing solution (with ucid/date comment)
2. Full output of executing the program



Missing Caption



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### ≡ Part 2:

Progress: 0%


Details:



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

Your Response:

Missing Response

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

Progress: 100%

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

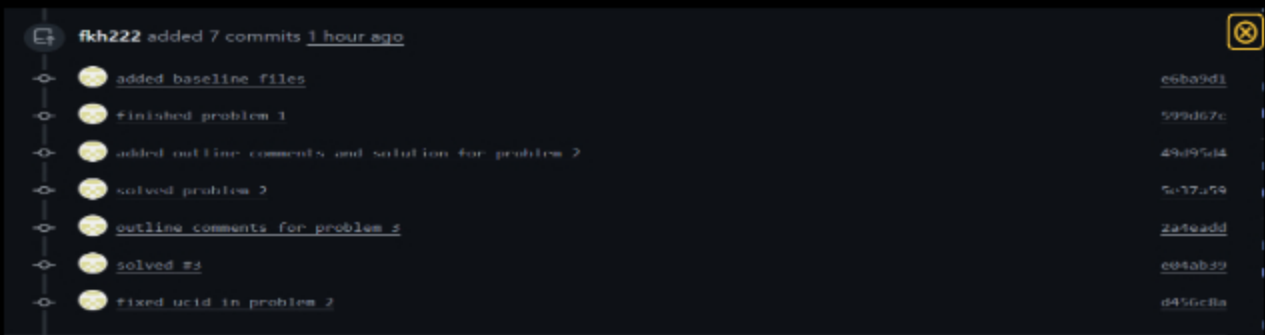
Progress: 100%

#### 📁 Part 1:

Progress: 100%

##### Details:

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



fk222 added 7 commits 1 hour ago	
added baseline files	c6ba9d1
finished problem 1	599d67c
added outline comments and solution for problem 2	49d95d4
solved problem 2	5c37a54
outline comments for problem 3	2a4eadd
solved #3	c94ab39
fixed uid in problem 2	d456c8a

commit history

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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/fk222/fk222-IT114450/>



URL

<https://github.com/fk222/fk222-IT114450/>

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

Progress: 100%

**Details:**

- Visit the [WakaTime.com](https://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

## Projects • fk222-IT114-450

**1 hr 33 mins** over the Last 7 Days in fk222-IT114-450 under all branches. 📄

1.4

wakatime overall time

**Files**

30 mins module2/Problem3.java  
 27 mins module2/Problem1.java  
 18 mins module2/Problem2.java  
 9 mins module2/Hello.java  
 3 mins module2/Problem4.java  
 3 mins module2/BaseClass.java  
 1 min .gitignore

**Branches**

1 hr 22 mins M2-Homework  
 10 mins main

wakatime file name



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

Progress: 100%

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

Progress: 100%

— Task Collapsed —

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

Progress: 100%

— Task Collapsed —

#### ⇒ 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:**

Problem 3 with converting string number values into positive and turning them back into strings was tricky.



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