Submission Worksheet

Submission Data

Course: IT114-450-M2025

Assignment: IT114 Java Problems

Student: Anthony L. (agl8)

Status: Submitted | Worksheet Progress: 100+%

Potential Grade: 11.00/10.00 (110.00%) Received Grade: 0.00/10.00 (0.00%) Started: 8/7/2025 12:45:25 PM Updated: 8/11/2025 12:53:15 AM

Grading Link: https://learn.ethereallab.app/assignment/v3/IT114-450-M2025/it114-java-problems/grading/agl8

View Link: https://learn.ethereallab.app/assignment/v3/IT114-450-M2025/it114-java-problems/view/agl8

ns	structions
	Overview Link: https://youtu.be/Mrahk6SFYao
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
	\Box 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"
	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
	Sync Local
	1. git checkout main

2. git pull origin main

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

Progress: 100%

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

Code

```
problems output TERMINAL GITLENS PORTS DEBUG CONSOLE

anthonyleongAnthonys-MacBook-Air ~/Library/CloudStorage/OneDrive-Personal/NJIT Coursework/Summ java M2.Problem1 for [agl8] [2025-08-07T12:44:46.556738]
Objective: Print out only odd values in a single line separate by commas Problem 1: Original Array: [8, 1, 2, 3, 4, 5, 6, 7, 8, 9]
Output Array: 1, 3, 5, 7, 9

Problem 2: Original Array: [9, 8, 7, 6, 5, 4, 3, 2, 1, 0]
Output Array: 9, 7, 5, 3, 1

Problem 3: Original Array: [8, 0, 1, 1, 2, 2, 3, 3, 4, 4, 5, 5, 6, 6, 7, 7, 8, 8, 9, 9]
Output Array: 1, 1, 3, 3, 5, 5, 7, 7, 9, 9

Problem 4: Original Array: [9, 9, 8, 8, 7, 7, 6, 6, 5, 5, 4, 4, 3, 3, 2, 2, 1, 1, 0, 0]
Output Array: 9, 9, 7, 7, 5, 5, 3, 3, 1, 1

Completed Problem 1 for [agl8] [2025-08-07T12:44:46.566513]
anthonyleongAnthonys-MacBook-Air ~/Library/CloudStorage/OneDrive-Personal/NJIT Coursework/Summ
```



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/agl8-2025/agl8-

IT1146450M2-Homework/M2/Problem1.java



https://github.com/agl8-2025/agl



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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 loops through the array and uses the modulo operator to verify if the number is odd or even. If it's odd, it gets added with a comma. The end number is just trimmed off so there isn't a misplaced comma.



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

Progress: 100%

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)
- Stan 2: Add/commit your outline of comments (required for full gradi

- Step 2. Add/commit your oddine or 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

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

Code

Output



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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/agl8-2025/agl8-

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https://github.com/agl8-2025/agl

IT11 bla50M2-Homework/M2/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 loops through the array and adds them up into a total. Then we use the String.format with %.2f to reflect the correct number of decimal places in the final number.



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

Progress: 100%

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 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

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



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voluntil - Meth. Sec(num). elen (2nt num – Interes perseInt(str): output[1] – mern enstoum;

Code

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Output:
42(1), 17(1), 89(1), 256(1), 1824(1), 4896(1), 58888(1), 123456(1)
Output:
3.14159265356979[D]. 2.716201620459[D]. 1.61603396075[D]. 0.5772156649[D]. 1.6E-7[D]. 1000000.0[D]
           oblem 3: Original Array:
1[7], -2.2[7], 3.3[7], -4.4[7], 5.5[7], -6.6[7], 7.7[7], -0.0[7]
Output:
1.1fel, 2.2fel, 2.3fel, 4.4fel, 5.5fel, 6.6fel, 7.7fel, 8.8fel
Problem 4: Original Acray:
128(8), -498(8), 789.81(8), -284.56(8), 8.88881(8), -99999999
Output:
123(1), 456(1), 789.81(0), 234.56(0), 1.86-5(0), 9999999911
          oblem 5: Original Array:
[II], 1[II], 2.0[F], -2.0[D], 3[S], -3.0[S]
Output:
1fI1, 1fI1, 2.efF1, 2.efD1, 3fI1, 3.efD1
                                                                                                Tor [agls] [2025-08-07112:01:04.759087]
-MacHook-Air -/Library/CloudStorage/One
```

Output



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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/agl8-2025/agl8-





URL

https://github.com/agl8-2025/agl/



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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 loops through the array and uses the Math.abs() method to convert every number to a positive. Then each number is cast back to its original data type and assigned to the proper slot in the array.



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

Progress: 100%

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%

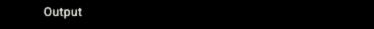
Details:

Two screenshots are expected

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

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Company action and the array of the array of
```

Code





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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/agl8-2025/agl8-

IT11 blo50M2-Homework/M2/Problem4.java



https://github.com/agl8-2025/agl/



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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 uses regex to dismiss any characters that aren't letters, spaces, or numbers. Then it loops through each word and capitalizes the first letter. Finally, it uses trim and replaceAll() to manage any spaces.



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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

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

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### State of the control of the state of the
```

Code

```
Assign to 'placeholderrorMicolletheracters'

if not enough characters saign "Not enough characters"

front enough characters saign "Not enough characters"

Problem 1: Original Array: [bollo world!, [awe programming, special@#A*Scharacters, numbers 123 456, mTwFd CaSe InPut!]

Fronties 1: Original Array: [Bidlo world!, [awe programming, special@#A*Scharacters, numbers 123 456, mTwFd CaSe InPut!]

Index[s] "Java Programsing" | Hiddle: "har"

Index[s] "Huttle Korld" | Hiddle: "har"

Trobux[s] "Huttle Korld" | Hiddle: "har"

Trobux[s] "Huttle Korld" | Hiddle: "har"

Index[s] "Huttle Korld" | Hiddle: "har"

I
```

Output



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=, Part 2:

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:

The code checks if the string has enough characters. If so, it determines the middle index. Finally, the substring method retrieves the three characters in the middle spot.



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Section #5: (2 pts.) Misc

Progress: 100%

Progress: 100%

Part 1:

Progress: 100%

Details:

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



Commits



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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/agl8-2025/agl8-



https://github.com/agl8-2025/agl

IT11 40415/03/



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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



Bottom

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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:

This module was a great intro to Java topics. I learned a lot of methods, formatting, and nuances, including how to format numbers and an intro to regex.

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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 of this module homework was problem two. It was just adding up the numbers in the array.



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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:

The harder part of this module's homework was problem 4. The logic required was confusing. Cleaning up the text was difficult as well.



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