

Sabath Rodriguez
April 15, 2024
CSC500: PRINCIPLES OF
PROGRAMMING

Module 5: Critical Thinking Assignment

I learned a lot about branching during this module (Lysecky & Vahid, 2019, section 5). This module really made me think hard about architecting the assignment correctly to ensure the proper calculations and output. I know that it wasn't part of the assignment but I also learned a lot about making sure we're testing and looking out for wrong user input, using try/catch blocks.

Output:

```
• sabathrodriguez@Sabaths-MacBook-Air csc500-1 % python3 critical_thinking_2.py
Enter 1 to run part 1 or 2 to run part 2 (or 3 for both): 3
Part 1-----
Enter the number of years we will use to calculate rainfall(as a number): 1
Enter the inches of rainfall for year 1 and month 1: (as a number)1
Enter the inches of rainfall for year 1 and month 2: (as a number)2
Enter the inches of rainfall for year 1 and month 3: (as a number)3
Enter the inches of rainfall for year 1 and month 4: (as a number)4
Enter the inches of rainfall for year 1 and month 5: (as a number)5
Enter the inches of rainfall for year 1 and month 6: (as a number)6
Enter the inches of rainfall for year 1 and month 7: (as a number)7
Enter the inches of rainfall for year 1 and month 8: (as a number)8
Enter the inches of rainfall for year 1 and month 9: (as a number)9
Enter the inches of rainfall for year 1 and month 10: (as a number)10
Enter the inches of rainfall for year 1 and month 11: (as a number)11
Enter the inches of rainfall for year 1 and month 12: (as a number)12
Total number of months: 12
Total inches of rainfall: 78.0
Average rainfall for month: 1 : 1.0
Average rainfall for month: 2 : 2.0
Average rainfall for month: 3 : 3.0
Average rainfall for month: 4 : 4.0
Average rainfall for month: 5 : 5.0
Average rainfall for month: 6 : 6.0
Average rainfall for month: 7 : 7.0
Average rainfall for month: 8 : 8.0
Average rainfall for month: 9 : 9.0
Average rainfall for month: 10 : 10.0
Average rainfall for month: 11 : 11.0
Average rainfall for month: 12 : 12.0
Part 2-----
Enter the number of books you have purchased this month: 11
Number of points awarded: 60
• sabathrodriguez@Sabaths-MacBook-Air csc500-1 %
```

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Git:

https://github.com/Sabathrodriguez/grad_school/blob/main/csc500-

[1/critical_thinking_2.py](https://github.com/Sabathrodriguez/grad_school/blob/main/csc500-1/critical_thinking_2.py)

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References

Lysecky, R., & Vahid, F. (n.d.). 5 Branching. In CSC500: Principles of Programming. essay, ZyBooks.