Aissatou Ndiaye

INFO-B210-26015

Information Infrastructure

Professor Krohannon

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**Dataset: Restaurant Tips**

**Task: Calculate mean and median for “total\_bill” and “tip.”**

**Copilot Chat:**

aindiaye07: Can you Calculate the mean and median for “total\_bill” and “tip?"

GitHub Copilot: To calculate the mean and median for “total\_bill” and “tip,” I’ll need to read your CSV file and process the data. I’ll check the contents of your file to identify the column names and data format. The file contains columns for "total\_bill" and "tip" with numeric values. I will now calculate the mean and median for both columns using Python.

Made changes.

It looks like PowerShell is not interpreting the command correctly due to the way the command is formatted. I will adjust the command to ensure it runs properly in PowerShell. The script to calculate the mean and median for "total\_bill" and "tip" was created and the command was run, but I couldn't retrieve the output due to a terminal issue.

You can check the PowerShell terminal in VS Code for the printed results, or let me know if you want the script to save the results to a file instead. Would you like me to update the script to write the results to a text file for you?

aindiaye07: Yes. Update the script to write the results to a text file AND save the results to a file.

GitHub Copilot:

Made changes.

The script was updated to save the mean and median results to a file, but it appears the results file was not created—possibly due to a script error or a permissions issue.

Would you like me to help troubleshoot the script, or would you like to check if the file was created manually in your folder? If you saw an error message in the terminal, please let me know what it says.

aindiaye07: Yes. Please troubleshoot the script.

GitHub Copilot: The script worked correctly! Here are the results from tips\_stats\_results.txt:

* **Mean of total\_bill: 19.79**
* **Median of total\_bill: 17.80**
* **Mean of tip: 3.00**
* **Median of tip: 2.90**

The results are saved in the file tips\_stats\_results.txt in your folder. Let me know if you need anything else!

aindiaye07: How do I copy a Copilot chat?

GitHub Copilot: To copy a Copilot chat in Visual Studio Code, simply highlight the text in the chat window with your mouse, right-click, and select "Copy" or use the keyboard shortcut Ctrl+C. You can then paste it anywhere you like with Ctrl+V.

**Mean of total\_bill” 19.79**

**Mean of tip: 3.00**

**Median of total\_bill: 17.80**

**Median of tip: 2.90**

1. What is the purpose of this program(s)?

* Tracking and understanding performance and trends
* Determine fair tip distribution
* ID restaurant revenue from how much is made in tips
* Monitor server performance and customer satisfaction

1. What does the program do, include what it takes for input, and what it gives as output?

Input:

* Program receives list of numbers representing tip amounts
* User can manually enter tips

Output:

* Program prints calculated mean and median of tips

1. How do you use the program?

* Set up VS Code
* Write Python code
* Run program
* Enter tips