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SDEV300 Lab 5 Testing:

Pylint:

My first pylint score was 7.60/10.00. Most of these “errors” were, in reality, suggestions to improve my program. In reality, however, this would be difficult, as, I feared that, by changing one of the methods by which I do something, I might throw the entire program out of balance.

Text

Description automatically generated

(Please ignore “previous run of 3.18”. My program accidentally got cut off and I tested only the first 37 lines, which was a mistake).

After correcting literally every other error besides the suggestions, my score climbed to 8.75/10

Text

Description automatically generated

To tell the truth, I did not know how to use “.items()”, so I tried my best, but am not sure if it will be functional. What I did, however, added to my score, making it a 9.13/10.

Text

Description automatically generated

Correcting the dictionary iterations, as well as the indices, actually brought me back to 8.75/10, indicating that I had not called .items() on some of the dictionary instances.

Calendar

Description automatically generated with low confidence

My score was now 9.52/10.00

A picture containing graphical user interface

Description automatically generated

I had finally eliminated all problems besides turning regular strings into f strings. I tried doing it several times, but it kept messing up my program’s functionality. My score was now 9.71/10.00 I guess this was my highest score for this week.

Graphical user interface

Description automatically generated with low confidence

Test Cases:

To perform the test cases, I actually had to reverse some of my format corrections from pylint for the program to work. I guess that, the way I did it, some things can only be formatted one way, even if pylint disagrees.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Case: | Input (In order) | Expected Output: | Actual Output: | Pass? |
|  | 1, 1 | Count: 556.00  Mean: 49957.31  Std Deviation: 27250.71  Min: 13519.00  Max: 218478.00  Plus histogram.  Program then returns to column menu when histogram is closed. | Count: 556.00  Mean: 49957.31  Std Deviation: 27250.71  Min: 13519.00  Max: 218478.00  Plus histogram.  Program then returns to column menu when histogram is closed. | Yes |
|  | 2, 3 | Count: 10042.00  Mean: 1966.95  Std Deviation: 26.31  Min: 1919.00  Max: 2012.00  Plus histogram. User redirected to column menu when closing out of histogram. | Count: 10042.00  Mean: 1966.95  Std Deviation: 26.31  Min: 1919.00  Max: 2012.00  Plus histogram. User redirected to column menu when closing out of histogram. | Yes |
|  | 3 | “Thanks for using the Data Analysis app!” goodbye message appears. Program exits. | “Thanks for using the Data Analysis app!” goodbye message appears. Program exits. | Yes |

Test Case 1 Screenshot:

Chart, histogram

Description automatically generated

Test Case 2 Screenshot:

Chart, histogram

Description automatically generated

Test Case 3 Screenshot:

Text

Description automatically generated

Conclusions:

After A LOT of rearranging and testing code, everything finally works perfectly. I must admit, however, that I forgot to make the program confirm which option or column the user has selected. I also opted to do the columns as numbers rather than letters. Another bad things is that I had to eventually reverse some of my pylint corrections for the program to work, therefore probably getting a slightly lower score than the aforementioned 9.71/10.00.