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SDEV 300 / 7381

Lab 5 – File and Data Analysis

This program is being tested to catch invalid data and appropriately handle user input, while also getting more experience using libraries such as numpy, matplotlib, and pandas. This program also provides more experience with file handling, such as reading in data from a csv file. There weren’t many issues that I ran into this week and the test cases all pass. The program works as designed and my comfort level with secure code creation is continuing to build. I find that the more I have used pylint, the better I have gotten at writing clean and industry acceptable code. Each week my original pylint score continues to be better and this week I had just one minor fix before the code was a 10/10 on pylint.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test** | **Input** | **Expected Output** | **Actual Output** | **Pass?** |
| **1** | 3 | Exit, Thanks for using | Exit, Thanks for using | Pass |
| **2** | “wrong input”, 1, “w78”, 1, 2, 3, 4 | “Invalid entry, try again”, Pop Data selected, pick a column, invalid input, display statistics and histogram, display menu, display statistics and histogram, display menu, display statistics and histogram, exit column menu, exit program |  |  |
| **3** | 1, 4, 2, “wrong input 7”, 7, 1, 2, 3, 6, 3 | Pop Data selected, exit column menu, Housing Data selected, Invalid input, Invalid input, Display Age column stats and histogram, Display Bedroom column stats and histogram, Display Built column stats and histogram, exit column menu, exit program |  |  |
| **4** | 2, 4, 5, 6, 3 | Housing Data selected, Display Rooms statistics and histogram, Display Utility stats and histogram, exit column menu, exit program |  |  |

**Test 1:**

A screenshot of a computer

Description automatically generated

**Test 2:**

A screen shot of a computer

Description automatically generated

A computer screen shot of a graph

Description automatically generated

A computer screen shot of a graph

Description automatically generated

A computer screen shot of a program

Description automatically generated

**Test 3:**

A computer screen shot of a program

Description automatically generated

A screenshot of a computer

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A computer screen shot of a graph

Description automatically generated

A computer screen shot of a graph

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A screenshot of a computer

Description automatically generated

**Test 4:**

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A screenshot of a computer

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**Pylint:**

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