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#Course: CYOP 300**

**lab\_5.py**

**Test Table:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case** | **Input** | **Expected Result** | **Actual Result** |
| **1. Exit Application** | **Main menu: Enter 3** | **Application prints exit message ("Thanks for using the Data Analysis App") and terminates.** | **\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Thanks for using the Data Analysis App \*\*\*\*\*\*\*\*\*\*** |
| **2. Population Data – Valid Column** | **Main menu: Enter 1; Column menu: Enter a for "Pop Apr 1".** | **Statistics and histogram displayed and open.** | **Statistics and histogram are displayed correctly.** |
| **3. Housing Data – Valid Column** | **Main menu: Enter 2; Column menu: Enter a for "AGE".** | **Statistics and histogram are displayed correctly.** | **Statistics and histogram are displayed correctly.** |
| **4. Invalid Main Menu Input** | **Main menu: Enter an invalid value (e.g., "a").** | **“Invalid choice. Please enter 1, 2, or 3.”** | **“Invalid choice. Please enter 1, 2, or 3.”** |
| **5. Invalid Column Menu Input** | **After selecting a file, enter an invalid option (e.g., "z") in the column meu.** | **“Invalid column choice. Please enter a valid option (a, b, c, or d).”** | **“Invalid column choice. Please enter a valid option (a, b, c, or d).”** |

**Test Case 1:**

**A black screen with a black background

AI-generated content may be incorrect.**

**Test Case 2:**

**A screenshot of a computer screen

AI-generated content may be incorrect.**

**Test Case 3:**

**A screen shot of a computer

AI-generated content may be incorrect.**

**Test Case 4:**

**A black screen with a black background

AI-generated content may be incorrect.**

**Test Case 5:**

**A black rectangle with white text

AI-generated content may be incorrect.**

**Pylint:**

**A black screen with white text

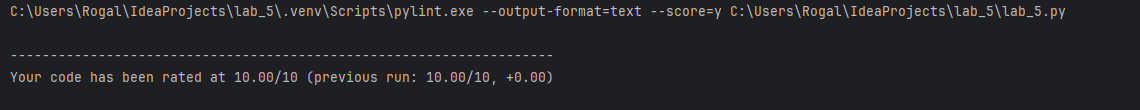
AI-generated content may be incorrect.**

**After shortening docstring lines and adding catch specific exceptions (ie. “except Exception as e:” vs “except ValueError as e:”).**

**A computer screen shot of a black screen

AI-generated content may be incorrect.**

**To get a perfect score I would have to refactor my code. I could break up large functions into smaller ones. Another way would be to create a dictionary to reduce the if/elif chains.**

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