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SDEV 300

Lab 5 Test Document

**Pylint Initial Results:**

\*\*\*\*\*\*\*\*\*\*\*\*\* Module lab5

lab5.py:28:8: W0621: Redefining name 'choice' from outer scope (line 110) (redefined-outer-name)

lab5.py:59:8: W0621: Redefining name 'choice' from outer scope (line 110) (redefined-outer-name)

lab5.py:78:18: C0103: Argument name "df" doesn't conform to snake\_case naming style (invalid-name)

------------------------------------------------------------------

Your code has been rated at 9.61/10 (previous run: 9.61/10, +0.00)

**Changes Made:**

1. Re-named all 3 variables.

**New Results:**

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Your code has been rated at 10.00/10 (previous run: 9.61/10, +0.39)

Test Table

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test | Purpose | Input | Expected Output | Actual Output | Pass |
| 1a | Test normal function on population data, apr 1 column | 1, a | prints analysis | You selected: Pop Apr 1  Mean: 49957.31474820144  Max: 218478  Min: 13519  Count: 556  Median: 42888.5  Standard deviation: 27250.710959563166 | y |
| 1b | Test normal function on population data, jul 1 column | b | prints analysis | You selected: Pop Jul 1  Mean: 50112.0917266187  Max: 217215  Min: 12619  Count: 556  Median: 43436.0  Standard deviation: 27618.449743575722 | y |
| 1c | Test normal function on population data, change column | c | prints analysis | You selected: Change Pop  Mean: 154.77697841726618  Max: 22363  Min: -13775  Count: 556  Median: -190.5  Standard deviation: 3050.551686139967 | y |
| 1d | Test option exits to main menu | d | exits | Returning to Main Menu... | y |
| 2a | Test normal function on housing data, age column | 2, a | prints analysis | You selected: AGE  Mean: 47.2194781915953  Max: 93  Min: -9  Count: 10042  Median: 49.0  Standard deviation: 23.149798767083286 | y |
| 2b | Test normal function on housing data, bedrms column | b | prints analysis | You selected: BEDRMS  Mean: 2.7092212706632144  Max: 7  Min: 0  Count: 10042  Median: 3.0  Standard deviation: 1.0660362258249467 | y |
| 2c | Test normal function on housing data, built column | v | prints analysis | You selected: BUILT  Mean: 1966.9522007568214  Max: 2012  Min: 1919  Count: 10042  Median: 1970.0  Standard deviation: 26.30583051507909 | y |
| 2d | Test normal function on housing data, rooms column | d | prints analysis | You selected: ROOMS  Mean: 5.723262298346943  Max: 14  Min: 1  Count: 10042  Median: 6.0  Standard deviation: 1.8762094576039545 | y |
| 2e | Test normal function on housing data, utility column | e | prints analysis | You selected: UTILITY  Mean: 189.58596395143397  Max: 1107.583333  Min: 0.0  Count: 10042  Median: 172.0  Standard deviation: 128.92876648751212 | y |
| 2f | Test menu option returns to main menu | f | exits | Returning to Main Menu... | y |
| 3 | Test main menu exit message and closes | 3 | exits | \* \* \* Thank you for using the app. Goodbye \* \* \* | y |
| 4a | Test data validation on pop change menu | test, 123, !@# | error | Invalid selection. Re-enter... | y |
| 4b | Test data validation on housing menu | test, 123, !@# | error | Invalid selection. Re-enter... | y |
| 4c | Test data validation on main menu | test, 123, !@# | error | Invalid selection. Re-enter... | y |

Screenshots

1a.A screenshot of a computer

Description automatically generated

1b.A screenshot of a computer

Description automatically generated

1c.A computer screen shot of a graph

Description automatically generated

1d.A screenshot of a computer

Description automatically generated

2a.A screenshot of a computer

Description automatically generated

2b.A screenshot of a computer screen

Description automatically generated

2c.A computer screen shot of a graph

Description automatically generated

2d.A screenshot of a computer

Description automatically generated

2e.A screenshot of a computer

Description automatically generated

2f.A screenshot of a computer

Description automatically generated

3.A screenshot of a computer

Description automatically generated

4a.A screenshot of a computer

Description automatically generated

4b.A screenshot of a computer

Description automatically generated

4c.A screenshot of a computer

Description automatically generated