

TEST PROJECT REPORT

Average Result Testor



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Introduction

The "Average Result Testor" is a Python application developed using the Tkinter library. Its objective is to provide a user-friendly interface for calculating the result based on the average (moy) entered by the user.

Technologies Used:

- Python programming language
- Tkinter library for GUI development
- Unit testing with the built-in unittest framework



System Testing

Application Description:

- Functionality:
 - Allows users to input an average (moy).
 - test the result based on the entered average.
 - Displays the result in a popup message box.
- User Interface:
 - Simple and intuitive interface with a single input field and a button.
 - The input field is labeled "Moy" for clarity.
- Error Handling:
 - Displays an error message if the user enters an invalid input.

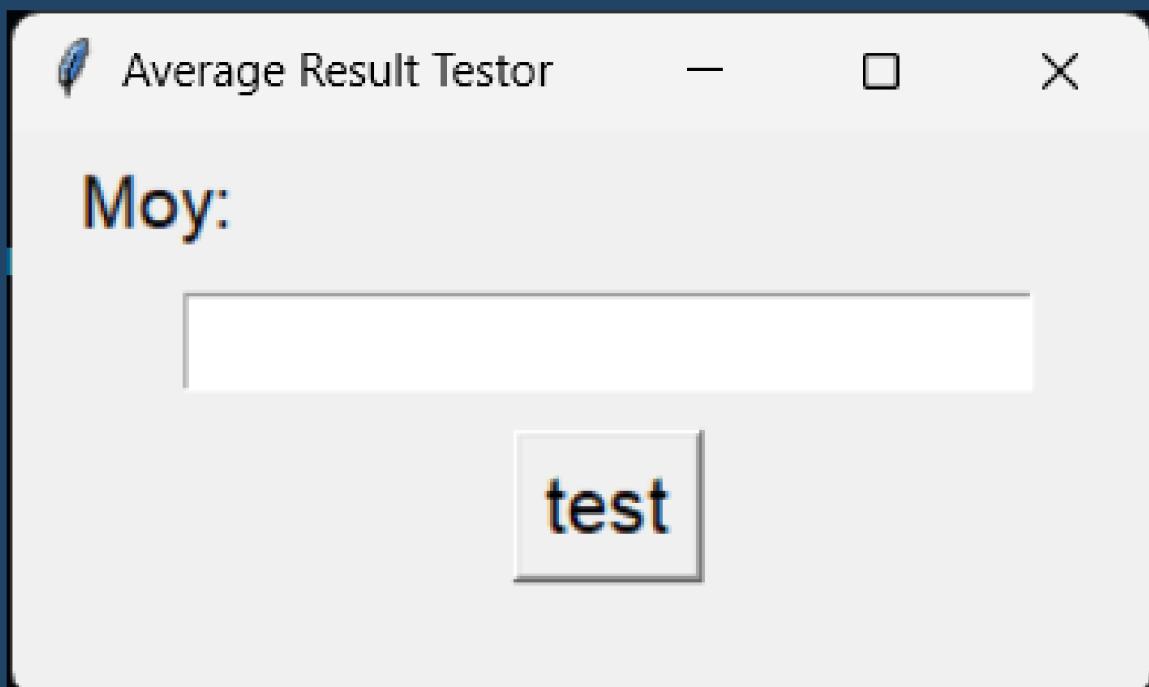


System Testing

Implementation

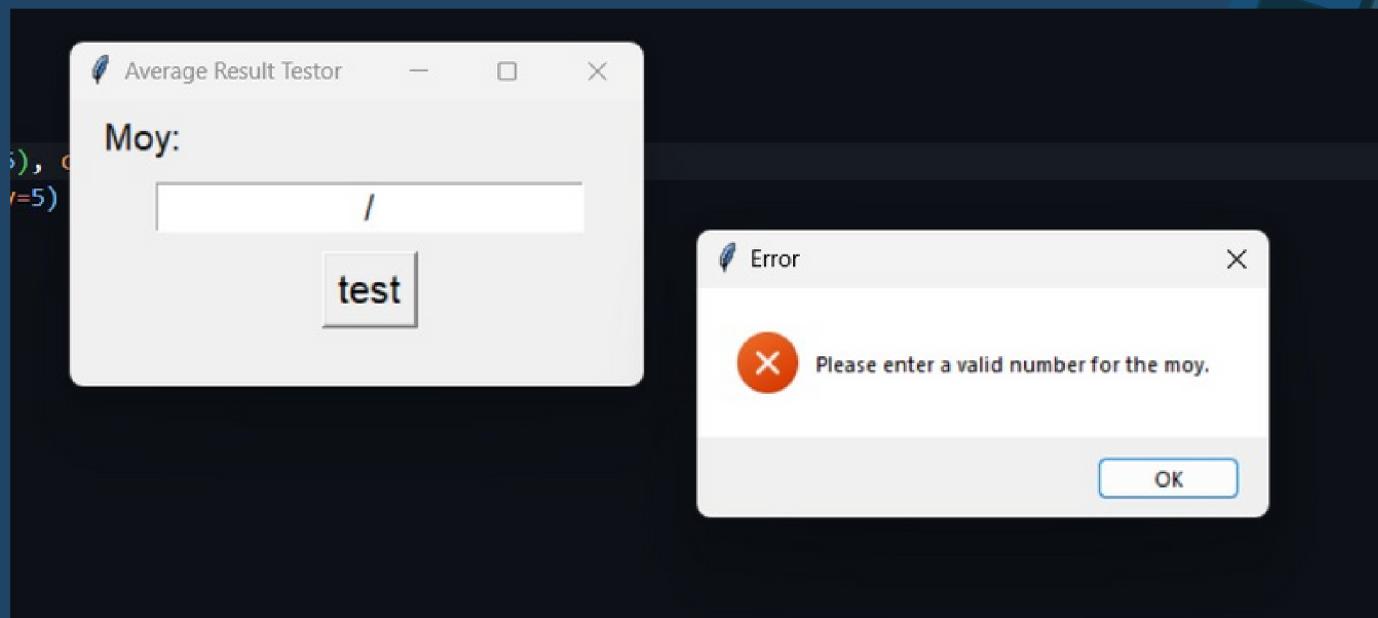
- Overview of the code structure and key functions:
 - `calculate_result(moy)`: Determines the result based on the entered average.
 - `get_result()`: Retrieves the average from the entry field, calculates the result, and displays it in a messagebox.

GUI Interface



System Testing

Error Handling

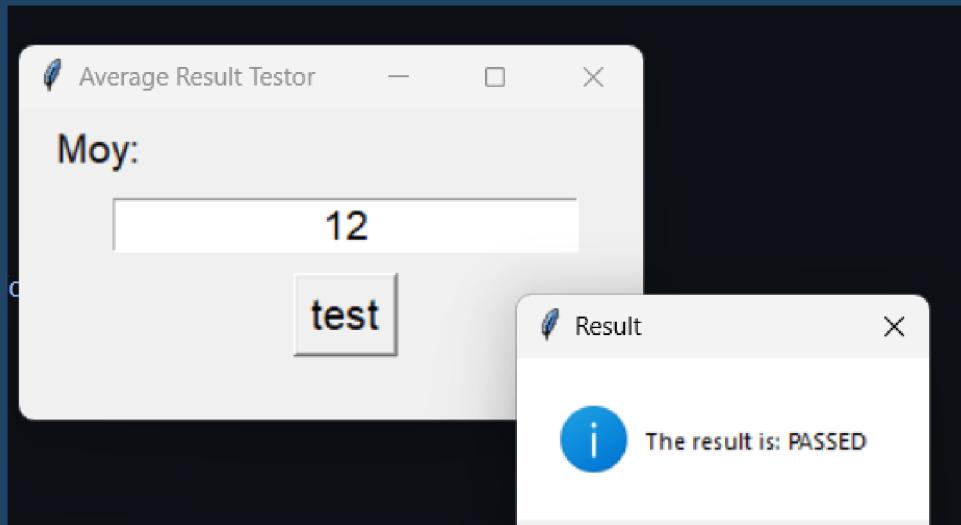


Testing

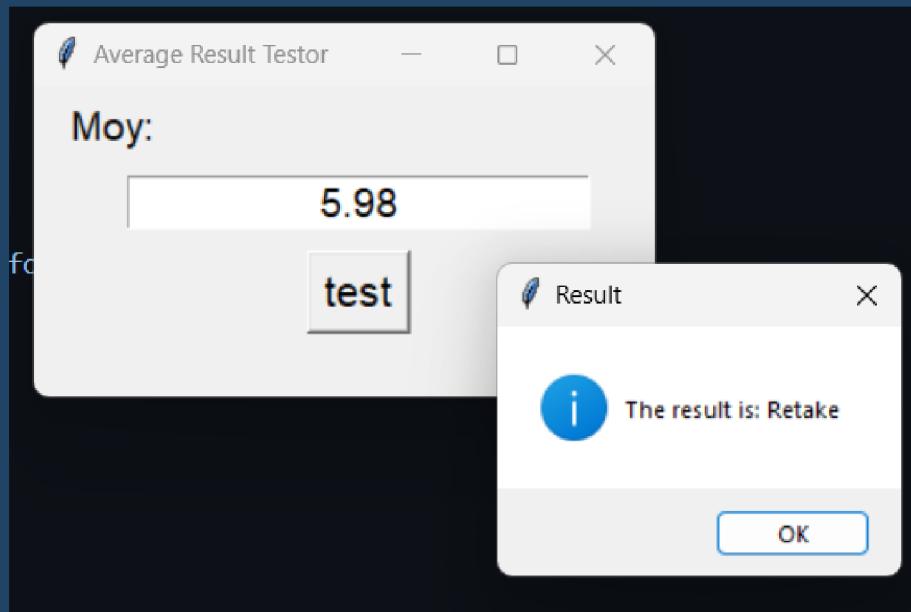
Unit Testing:

- Implemented unit tests using the unittest framework to ensure the correctness of the calculation logic.
- Covered various scenarios including valid averages, boundary conditions, and invalid inputs.
- Achieved a high code coverage percentage to ensure robustness.

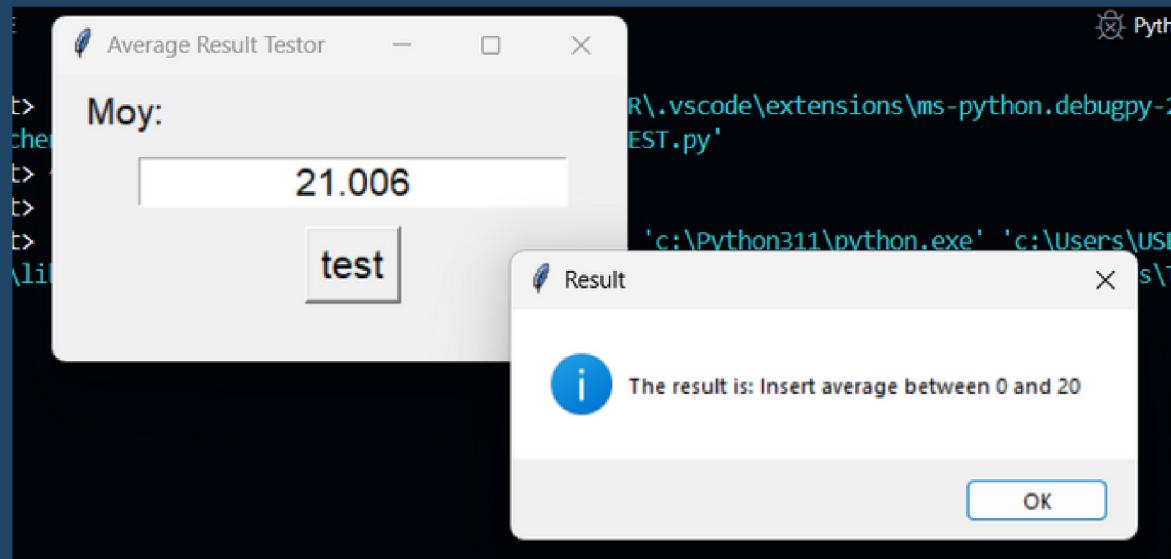
Entering Average & Result Display (Test Case 1)



Entering Average & Result Display (Test Case 2)



Entering Average & Result Display (Test Case 3)



Conclusion:

- The "Average Result Testor" project provides a simple yet effective solution for calculating results based on averages.
- The use of Tkinter makes it accessible to users with minimal technical expertise.
- The project demonstrates the use of Python and Tkinter for GUI application development and unit testing for ensuring code quality.