

- Call the `recursive_digit_addition` function with the initial sum.
- Print the final result.

Input and Output

The program will take two integers as input and provide a single-digit result as output.

Error Handling

- The program should handle cases where the user enters non-integer input or invalid input gracefully, providing appropriate error messages and requesting valid input.

Testing

Test the program with various input values to ensure it works correctly and handles different scenarios. Test cases should include both single-digit and multi-digit input numbers.

Conclusion

This design document outlines the approach and pseudocode for a recursive digit addition program that takes two numbers from the user, adds them together, and recursively separates and adds digits until a single-digit result is obtained. The implementation should follow the pseudocode and include error handling for invalid input.

**** This document was generated by ChatGPT and edited by myself.****