You work at a wellness center that wants to track clients’ daily step counts to encourage regular exercise. Your task is to design a program that allows users to enter the number of steps they walk each day of the week. Here’s what the program must do:

1. The program should prompt the user to enter the number of steps for each day (from Day 1 through Day 7).
2. The user’s input must be validated to ensure it falls within the range of 0 to 50,000 (inclusive). If the user types a value outside this range, the program should display an error message and prompt for a corrected value.
3. After the program has accepted a valid input for a day, it moves on to the next day. This repeats for seven days.
4. When all seven days’ step counts have been successfully entered, the program should calculate and display the total and average number of steps walked over the week.