

# Exercises

- You are a teacher and need to register students for a new class. Upon running the program, enter 6 names, and the names will automatically be sorted and displayed on the screen.
- Develop a cipher that can convert letters to numbers and numbers to letters. For example, 'a' becomes 1, 'b' becomes 2, and '3' becomes 'c'. Utilize lists and/or dictionaries for implementation.
- Create a shopping list with a maximum of 10 items. Through a menu, users can choose to populate the list, delete a specific item, or display the entire list. When filling the shopping list, users can decide to end the process after inputting each element. Display the list while skipping empty elements.
- Build a restaurant menu! Present a menu with 5 dishes to the user, who then enters their choice. Check if the selected dish is on the menu and whether it is expired. Communicate the search result accordingly. (Start with 3 portions per dish, and allow users to place orders as many times as desired.)
- In Python, sorting is easy. But how does it work? Think of a method to sort a list without using any pre-existing methods.