

# Exercises

In the following exercises, you can only use functions inside the main. Create a function to handle each simple task. You can also use functions inside other functions.

- Create a simple calculator, but use functions! Display a menu on the screen with the four main operations. Then, the user can enter his choice and two numerical values. After showing the result, the user can see the menu again and repeat the process until he types 'end'.
- Create a login process. The user can login by entering the correct username and password at the beginning. Then, he can choose to log out or modify the password with a new one as many times as he wants. The user can't modify the password if he is not logged in. When he logs out, he can choose to log in again, taking into account whether the password has been modified.
- Create software to manage tables in a restaurant. There are 5 tables available: 3 with a maximum capacity of 4 customers and 2 with a maximum capacity of 6 customers. At the beginning, check for available tables. Then, ask how many customers need a table and check if there is a table large enough. You can also free a table when the customers leave. Repeat this process until the restaurant closes.