

10 Intermediate Python Programming Exercises

1. User Age Calculator

Ask the user for their birth date (year, month, day) and calculate their exact age in years and days using Python's datetime module.

2. Word Counter

Take a paragraph as input and output: total word count, total character count, and frequency of each unique word.

3. Currency Converter

Create a program that converts Algerian Dinar (DZD) to USD, EUR, and GBP using predefined exchange rates.

4. Guess the Number Game

Program randomly picks a number between 1 and 50. User tries to guess it. The program gives hints (Higher / Lower).

5. Personal Expense Manager

Create a program that allows the user to add, delete, and view expenses. Store them in a list or a simple text file.

6. Number List Analyzer

The user enters several numbers. The program displays: highest number, lowest number, sorted list, and average value.

7. Student Manager System

Manage a list of students (name, age, grade). Allow adding, deleting, searching, and showing the top student.

8. Password Manager

Build a simple password manager that saves account names and passwords into a JSON file.

9. Simple Calculator

Create a function-based calculator that performs addition, subtraction, multiplication, division, power, and square root.

10. Tic-Tac-Toe Game

Create a terminal-based Tic-Tac-Toe game for two players, showing the board, taking turns, and checking for win/draw.