

Practical Exercices

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1 Requirements

- Deadline : Friday
- Presentation should be in person, explaining each exercise and tested the code.
- You are free to use the material, documentation

2 Variables and Basic Data Types

Exercise:

Write a program that asks the user to input their name, age, and favorite number. Store these values in appropriate variables, then print a message that includes all three pieces of information.

3 String Manipulation

Exercise:

Ask the user to input a word. Create a new string that repeats this word three times, adds an exclamation mark at the end, and prints the result.

4 In-Place Operators

Exercise:

Start with a variable x set to 5. Use in-place operators to:

- Add 10 to x.
- Multiply x by 3.
- Subtract 15 from x.
- Print the final result.

5 Booleans

Exercise:

Write a program that compares two numbers input by the user. Print `True` if the first number is greater than the second, and `False` otherwise.

6 If Statements

Exercise:

Create a simple program that checks if a user-entered number is even or odd. Print “Even” if the number is even and “Odd” if it’s not.

7 Loops

Exercise:

Write a program that prints the numbers from 1 to 10 using a while loop. Then modify it to print only the even numbers from 1 to 10.

8 Functions and Arguments

Exercise:

Define a function `greet_user(name)` that takes a user’s name as an argument and prints a personalized greeting. Call the function with at least three different names.

9 Returning from Functions

Exercise:

Create a function `multiply_numbers(a, b)` that returns the product of two numbers. Use this function to multiply three different pairs of numbers, and print the results.

10 Github

Exercise:

- What is GitHub?
- What is the difference between Git and GitHub?

- What is GitHub used for, and why is it important?
- Create a GitHub repository named `Python_for_Beginners`.
- Upload your notebook to the GitHub repository.
- Convert your notebook to a `.py` file and upload it to GitHub.