

Coding Challenges: Python Edition

1. Hello World

Write a Python program to print "Hello, World!" to the console.

2. Print Your Name

Write a program that prints your name to the print().

3. Print Name and Age on Separate Lines

Write a program to print your name and age on separate lines. Practice handling multiple pieces of information using the **print()** function.

4. Declare and Use Different Data Types

Declare variables of different data types (**string, integer, float, boolean**) and perform basic operations on them.

5. String Concatenation

Modify the program to print a message that combines your name and age in a single line using string concatenation. Use +, .format(), or f-strings (f"Hello, my name is {name} and I am {age} years old.").



6. Declare and Print Variables

Declare variables for your name and age, then print them.

7. Perform Mathematical Operations

Write a program that calculates and prints the result of all basic mathematical operations. Declare variables for the operands and perform addition, subtraction, multiplication, and division. Understand how Python handles numbers and mathematical expressions.

8. Declare and Print a List

Declare a list of strings and print each element.

9. Print a Simple Pattern

Write a program to print a simple pattern using asterisks:

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Use loops and structured output formatting to generate the pattern.



10. Declare and Modify Variables

- Declare a variable name and assign it a string value.
- Declare a variable age and assign it an integer value.
- Declare a variable is_student and assign it a boolean value (True or False).

11. Print and Modify Variable Values

- Print the value of each variable to the console.
- Change the value of the **name** variable to another string.
- Increment the value of the age variable by 1.
- Toggle the value of **is_student** from **True to False** or vice versa.

Practice updating and modifying stored values dynamically.

12. Store and Print Personal Details

Write a program to store and print the following details using separate variables:

- name (String)
- age (Integer)
- **dob** (Date of Birth String or Date format)
- height (Float)
- weight (Float)
- degree (String)
- **gender** (String)