

PYTHON GENERAL EXERCISE

Here's a two-part exercise that covers the mentioned Python concepts:

Part 1: Theory Exercise

1. Python Variables and Data Types:

Explain the difference between a variable and a data type in Python. Provide examples of three different data types in Python.

2. Numbers and Strings:

Describe the difference between numbers and strings in Python. Provide an example of a numeric variable and a string variable.

3. Type Conversion:

Explain the concept of type conversion in Python. Provide an example where you convert an integer to a string and vice versa.

4. Booleans:

Define what a boolean is in Python and provide two examples of boolean variables.

Part 2: Practice Exercise

1. Operators Intro and Arithmetics:

Write a Python script that prompts the user to input two numbers, then performs the following operations:

- Addition
- Subtraction
- Multiplication
- Division

Print the result of each operation.



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2. Assignment and Comparison:

Write a Python script that assigns two different numbers to variables ``num1`` and ``num2``. Then, compare them using the following comparison operators:

- Equal to
- Not equal to
- Greater than
- Less than

Print the result of each comparison.

3. Logical and Identity:

Write a Python script that checks the following logical expressions and prints the result:

- True and True
- True or False
- Not True

Also, demonstrate the identity operator `'is'` by comparing two variables with the same value but different identities.

4. Membership:

Write a Python script that checks if a given element exists in a list. Define a list of 5 elements and use the ``in`` and ``not in`` operators to check for membership.

Want to Become a Python Expert?

If you're serious about learning Python and getting ready for Data Analysis or Web Development roles using Python, I highly encourage you to enroll in my Complete Python Course. Don't waste your time following disconnected, outdated tutorials.

My Complete Python Course has everything you need in one place.



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- About 10 hours of HD video
- Unlimited access - watch it as many times as you want
- Self-paced learning - take your time if you prefer
- Watch it online or download and watch it offline
- One-on-one training with me 2-4 times a week

Sincerely,



Juma Shafara

Data Scientist, Instructor



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