



Python Basics



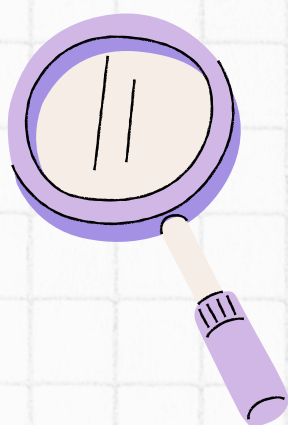
01 Variables

Use variables to store data values. Python allows dynamic typing, so you don't need to specify the data type explicitly.

Integer: Whole numbers

Float: Decimal numbers

String: A sequence of characters enclosed in quotes



02 Control Flow

Control flow statements allow you to make decisions and execute different code based on conditions.

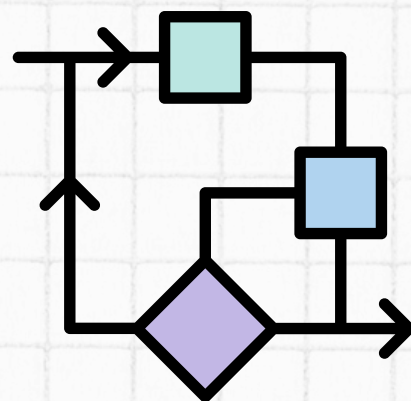
If-else Statement: Executes code based on whether a condition is True or False.

03 Loops

Repeat a block of code multiple times through a loop. Two common loops are the for loop and the while loop.

For Loop: Repeats over a sequence (like a list or range).

While Loop: Repeats while a condition is True.



04

Tips

Create Meaningful Variable Names:

★ count = 10 # Instead of c = 10

Document your code through comments:

★ Use # for single-line comments

DRY Principle (Don't Repeat Yourself):

★ Avoid duplicating code; use functions or loops



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