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Module 1 Cheat Sheet: Python Basics

Package/Method	Description	Code Example
Comments	Comments are lines of text that are ignored by the Python interpreter when	 1. # This is a comment
Concatenation	executing the code<./td> Combines (concatenates) strings.	Copied!
		Syntax:
		 1. 1 1. concatenated_string = string1 + string2
		Copied!
		Example:
		1. 1
		1. result = "Hello" + " John"
		Copied! Example:
Data Types	- Integer - Float - Boolean - String	1. 1
		2. 2 3. 3 4. 4
		5. 5 6. 6
		7. 7 8. 8 9. 9
		10. 10
		 x=7 # Integer Value y=12.4
		4. # Float Value 5. is_valid = True
		6. # Boolean Value 7. is_valid = False
		 # Boolean Value F_Name = "John" # String Value
Indexing	Accesses character at a specific index.	Copied!
		Example:
		1. 1 2. 2
		<pre>1. my_string="Hello" 2. char = my_string[0]</pre>
		Copied!
		Syntax: 1. 1
		 len(string_name)
		Copied!
len()	Returns the length of a string.	Example:
		1. 1 2. 2
		<pre>1. my_string="Hello" 2. length = len(my_string)</pre>
lower() print()	Converts string to lowercase. Prints the message or variable inside `()`.	Copied!
		Example:
		1. 1 2. 2
		<pre>1. my_string="Hello" 2. uppercase_text = my_string.lower()</pre>
		Copied!
		Example:
		1. 1 2. 2
		 print("Hello, world") print(a+b)
Python Operators	- Addition (+): Adds two values together Subtraction (-): Subtracts one value from another Multiplication (*): Multiplies two values Division (/): Divides one value by another, returns a float.	Copied!
		Example: 1. 1
		2. 2 3. 3
	- Floor Division (//): Divides one value by another, returns the quotient as an	4. 4

10/13/24, 6:21 PM about:blank integer. 6. 6 - Modulo (%): Returns the remainder after division. 1. x = 9 y = 41. x = 9 y = 4
2. result_add= x + y # Addition
3. result_sub= x - y # Subtraction
4. result_mul= x * y # Multiplication
5. result_div= x / y # Division
6. result_fdiv= x // y # Floor Division
7. result_mod= x % y # Modulo Copied! Example: 2. 2 Replaces substrings. replace() 1. my_string="Hello"
2. new_text = my_string.replace("Hello", "Hi") Syntax: 1. 1 1. substring = string_name[start:end] Copied! Slicing Extracts a portion of the string. Example: 1. 1 1. my_string="Hello" substring = my_string[0:5] Copied! Example: split() Splits string into a list based on a delimiter. 1. my_string="Hello"
2. split_text = my_string.split(",") Copied! Example: 1. 1 Removes leading/trailing whitespace. strip() 1. my_string="Hello"
2. trimmed = my_string.strip() Copied! Example: 1. 1 2. 2 Converts string to uppercase. upper() 1. my_string="Hello"
2. uppercase_text = my_string.upper() Copied! Syntax: 1. variable_name = value Copied! Variable Example: Assigns a value to a variable. Assignment 1. 1 2. 2 1. name="John" # assigning John to variable name 2. x = 5 # assigning 5 to variable x



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