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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 executing the code	 1. # This is a comment
Concatenation	Combines (concatenates) strings.	Copied! Syntax:
		1. 1
		<pre>1. concatenated_string = string1 + string2 Copied!</pre>
		Example:
		 1. 1 1. result = "Hello" + " John"
		Copied!
		Example: 1. 1 2. 2
Data Types	- Integer - Float - Boolean - String	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 Value5. is_valid = True6. # Boolean Value
		7. is_valid = False 8. # Boolean Value 9. F_Name = "John"
Indexing	Accesses character at a specific index.	10. # String Value Copied!
		Example: 1. 1
		2. 2 1. my_string="Hello"
		<pre>2. char = my_string[0] Copied!</pre>
		Syntax: 1. 1
		1. len(string_name)
len()	Returns the length of a string.	Copied! Example:
		1. 1 2. 2
		<pre>1. my_string="Hello" 2. length = len(my_string)</pre>
lower()	Converts string to lowercase.	Copied! Example:
		1. 1 2. 2
		<pre>1. my_string="Hello" 2. uppercase_text = my_string.lower()</pre>
		Copied! Example:
0		1. 1 2. 2
print()	Prints the message or variable inside `()`.	 print("Hello, world") print(a+b)
Python Operators	- Addition (+): Adds two values together.	Copied! Example:
-	 Subtraction (-): Subtracts one value from another. Multiplication (*): Multiplies two values. 	1. 1 2. 2
	 Division (/): Divides one value by another, returns a float. Floor Division (//): Divides one value by another, returns the quotient as an 	3. 3 4. 4

7/31/24, 8:47 PM about:blank integer. - Modulo (%): Returns the remainder after division. 1. 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") Copied! Syntax: 1. 1 1. substring = string_name[start:end] Copied! Extracts a portion of the string. Slicing 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 upper() Converts string to uppercase. my_string="Hello"
 uppercase_text = my_string.upper() Copied! Syntax: 1. 1 1. variable_name = value Copied! Variable Assigns a value to a variable. Example: Assignment 1. 1 2. 2 name="John" # assigning John to variable name 2. x = 5 # assigning 5 to variable x



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