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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<./td>	 1. 1 1. # This is a comment
Concatenation	Combines (concatenates) strings.	<pre>Copied! Syntax: 1. 1 1. concatenated_string = string1 + string2 Copied! Example: 1. 1 1. result = "Hello" + " John" Copied! Example:</pre>
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 1. x=7 2. # Integer Value 3. y=12.4 4. # Float Value 5. is_valid = True 6. # Boolean Value 7. is_valid = False 8. # Boolean Value 9. F_Name = "John" 10. # String Value
Indexing	Accesses character at a specific index.	Copied! Example: 1. 1 2. 2 1. my_string="Hello" 2. char = my_string[0] Copied! Syntax:
len()	Returns the length of a string.	<pre>1. 1 1. len(string_name) Copied! Example: 1. 1 2. 2 1. my_string="Hello" 2. length = len(my_string) Copied!</pre>
lower()	Converts string to lowercase.	<pre>Example: 1. 1 2. 2 1. my_string="Hello" 2. uppercase_text = my_string.lower() Copied!</pre>
print()	Prints the message or variable inside '()'.	Example: 1. 1 2. 2 1. print("Hello, world") 2. print(a+b) Copied!
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. - Floor Division (//): Divides one value by another, returns the quotient as an integer. - Modulo (%): Returns the remainder after division. 	<pre>Example: 1. 1 2. 2 3. 3 4. 4 5. 5 6. 6 7. 7 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</pre>
replace()	Replaces substrings.	Copied! Example: 1. 1 2. 2 1. my_string="Hello"
		<pre>2. new_text = my_string.replace("Hello", "Hi")</pre>

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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 2. 2 strip() Removes leading/trailing whitespace. 1. my_string="Hello"
2. trimmed = my_string.strip() Copied! Example: upper() Converts string to uppercase. my_string="Hello"
 uppercase_text = my_string.upper() Syntax: 1. 1 1. variable_name = value Copied! Variable Assigns a value to a variable. Example: Assignment 1. name="John" # assigning John to variable name 2. x = 5 # assigning 5 to variable x

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