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

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	integer Modulo (%): Returns the remainder after division.	5. 5 6. 6 7. 7
		<pre>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>
		Copied! Example:
replace()	Replaces substrings.	1. 1 2. 2
		<pre>1. my_string="Hello" 2. new_text = my_string.replace("Hello", "Hi")</pre>
		Copied! Syntax:
Slicing	Extracts a portion of the string.	<pre>1. 1 1. substring = string_name[start:end]</pre>
		Copied!
		Example:
		 1. my_string="Hello" substring = my_string[0:5]
split()	Splits string into a list based on a delimiter.	Copied! Example:
		1. 1 2. 2
		<pre>1. my_string="Hello" 2. split_text = my_string.split(",")</pre>
		Copied! Example:
strip()	Removes leading/trailing whitespace.	1. 1 2. 2
		<pre>1. my_string="Hello" 2. trimmed = my_string.strip()</pre>
upper()	Converts string to uppercase.	Copied! Example:
		1. 1 2. 2
		 my_string="Hello" uppercase_text = my_string.upper()
		Copied! Syntax:
Variable Assignment	Assigns a value to a variable.	 1. 1 variable_name = value
		Copied!
		Example:
		1. 1 2. 2
		1. name="John" $\#$ assigning John to variable name 2. $x = 5 \#$ assigning 5 to variable x



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