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Module 1 Cheat Sheet: Python Basics

D 1 - 04 11 -1	B		
Package/Method	Description	Code Example	
Comments	Comments are lines of text that are ignored by the Python interpreter when executing the code<./td>	1 # This is a comment	අු
Concatenation	Combines (concatenates) strings.	Syntax: 1	අ
		1 15315 1613 1 3311 1/137	
		Example:	
Data Types		1 x=7	
		2 # Integer Value	
		3 y=12.4	
		4 # Float Value	
	- Integer - Float - Boolean - String	5 is_valid = True	
		6 # Boolean Value	
		7 is_valid = False	
		8 # Boolean Value	
		9 F_Name = "John"	
		10 # String Value	4 2
Indexing		Example:	
	Accesses character at a specific index.	1 my_string="Hello"	
		2 char = my_string[0]	4 2
		Syntax:	
len()		1 len(string_name)	අු
	Returns the length of a string.	Example:	
		1 my_string="Hello"	4
		2 length = len(my_string)	අ
		Example:	
lower()	Converts string to lowercase.		
		1 my_string="Hello"	අු
		<pre>2 uppercase_text = my_string.lower()</pre>	
		Example:	
	D	1 print("Hello, world")	
print()	Prints the message or variable inside `()`.		€2n

		2 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. Floor Division (//): Divides one value by another, returns the quotient as an integer. Modulo (%): Returns the remainder after division. 	Example: 1
replace()	Replaces substrings.	Example: 1 my_string="Hello" 2 new_text = my_string.replace("Hello", "Hi")
Slicing	Extracts a portion of the string.	Syntax: 1 substring = string_name[start:end] Example: 1 my_string="Hello" substring = my_string[0:5] 1
split()	Splits string into a list based on a delimiter.	Example: 1 my_string="Hello" 2 split_text = my_string.split(",")
strip()	Removes leading/trailing whitespace.	Example: 1 my_string="Hello" 2 trimmed = my_string.strip()
upper()	Converts string to uppercase.	Example: 1 my_string="Hello" 2 uppercase_text = my_string.upper()
Variable Assignment	Assigns a value to a variable.	Syntax: 1 variable_name = value Example: 1 name="John" # assigning John to variable name 2 x = 5 # assigning 5 to variable x

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