## 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<./d>	1 # This is a comment &
		Syntax:  1 concatenated_string = string1 + string2 &
		1 concatenated_string = string1 + string2 @
Concatenation	Combines (concatenates) strings.	Example:
		1 result = "Hello" + " John"
		Example:
		1 x=7
	- Integer - Ploat - Boolean - String	2 # Integer Value 3 y=12.4
		4 # Float Value
Data Types		5 is_valid = True 6 # Boolean Value
		7 is_valid = False
		8 # Boolean Value
		9 F_Name = "John" 10 # String Value
		10 * String value
		Example:
Indexing	Accesses character at a specific index.	1 my_string="Hello"
		2 char = my_string[0]
		Syntax:
		Syntax:  1 len(string_name) &
len()	Returns the length of a string.	Example:
		1 my_string="Hello"
		2 length = len(my_string)
		Example:
		1 my string="Hello"
lower()	Converts string to lowercase.	2 uppercase_text = my_string.lower()
		Example:
print()	Prints the message or variable inside `()`.	1 print("Hello, world") 2 print(a+b)
		Example:
	- Addition (+): Adds two values together.	
Python Operators	- Subtraction (-): Subtracts one value from another.	2 result_add= x + y # Addition 3 result_sub= x - y # Subtraction
	- Multiplication (*): Multiplies two values Division (/): Divides one value by another, returns a float.	4 result_mul= x * y # Multiplication
	- Floor Division (//): Divides one value by another, returns the quotient as an integer.	5 result_div= x / y # Division
	- Modulo (%): Returns the remainder after division.	6 result_fdiv= x // y # Floor Division 7 result_mod= x % y # Modulo
		Example:
replace()	Replaces substrings.	1 my_string="Hello"
		2 new_text = my_string.replace("Hello", "Hi") @
		Syntax:
		1 substring = string_name[start:end] &
Slicing	Extracts a portion of the string.	Example:
	The state of the s	
		1 my_string="Hello" substring = my_string[8:5] &
		Example:
split()	Spits string into a list based on a delimiter.	
split()	Spits string into a list based on a delimiter:	Example:  1
split()	Spilts string into a list based on a delimiter:	Example:  1
split()	Spits string into a list based on a delimiter.  Removes leading-trailing whitespace.	Example:  1 my_string='Hello' 2 split_text = my_string.split(',')  Example: 1 my_string='Hello'
		Example:  1
		Example:  1
		Example:  1
strip()	Removes leading/trailing whitespace.	Example:
strip()	Removes leading/trailing whitespace.	Comple:    wy_string="Hello"     sy_string="Hello"     trimed = wy_string_split(",")     wy_string="Hello"     trimed = wy_string_string()     wy_string="Hello"     uppercase_text = wy_string_upper()     wy_string="Hello"     uppercase_text = wy_string_upper()     wy_string="Hello"     uppercase_text = wy_string_upper()     wy_string="Hello"     uppercase_text = wy_string_upper()     wy_string="Hello"     wy_string
strip()	Removes leading/trailing whitespace.	Example:    my_string='Hello'     split_text = my_string.split(',')     Example:    my_string='Hello'     triamed = my_string.strip()     my_string='Hello'     my_string='Hello'     uppercase_text = my_string.upper()     Syntax
strip()	Removes leading trailing whitespace.  Converts string to uppercase.	Compile   1
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