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 # This is a comment
		Syntax:
		1 concatenated_string = string1 + str
Concatenation	Combines (concatenates) strings.	Example:
		<pre>1 result = "Hello" + " John"</pre>
		Example:
		1 x=7
		2 # Integer Value
		3 y=12.4
		4 # Float Value
	- Integer - Float - Boolean - String	5 is_valid = True
Data Types		6 # Boolean Value
		7 is_valid = False
		8 # Boolean Value
		_
		10 # String Value
	Accesses character at a specific index.	Example:
		1 my_string="Hello"
Indexing		<pre>char = my_string[0]</pre>
		Syntax:
		1 len(string_name)
len()	Returns the length of a string.	Example:
- 0	The second secon	4
		1 my_string="Hello"
		<pre>2 length = len(my_string)</pre>
		Example:
lower()	Converts string to lowersase	<pre>1 my_string="Hello"</pre>
lower()	Converts string to lowercase.	<pre>2 uppercase_text = my_string.lower()</pre>
		Example:
print()	Prints the message or variable inside `()`.	1 print("Hello, world")
		2 print(a+b)
Python Operators	- Addition (+): Adds two values together.- Subtraction (-): Subtracts one value from another.	Example:
		$1 \qquad x = 9 y = 4$
		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
		<pre>7 result_mod= x % y # Modulo</pre>

replace()		Example:
	Replaces substrings.	1 my_string="Hello"
	Replaces substitutes.	<pre>2 new_text = my_string.replace("Hello</pre>
Slicing	Extracts a portion of the string.	Syntax:
		<pre>substring = string_name[start:end]</pre>
		Example:
		1 my_string="Hello" substring = my_st
split()		Example:
	Splits string into a list based on a delimiter.	<pre>1 my_string="Hello"</pre>
	Spine string into a list based on a delimiter.	<pre>2 split_text = my_string.split(",")</pre>
strip()	Removes leading/trailing whitespace.	Example:
		<pre>1 my_string="Hello"</pre>
		<pre>2 trimmed = my_string.strip()</pre>
upper()	Converts string to uppercase.	Example:
		<pre>1 my_string="Hello"</pre>
		<pre>2 uppercase_text = my_string.upper()</pre>
Variable Assignment	Assigns a value to a variable.	Syntax:
		1 variable_name = value
		Example:
		<pre>1 name="John" # assigning John to var</pre>
		2 x = 5 # assigning 5 to variable x

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