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## **Module 1 Cheat Sheet: Python Basics**

Package/Method	Description	Code Example
6	Comments are lines of text that are ignored by the Python interpreter when	<ol> <li>1. 1</li> <li>1. # This is a comment</li> </ol>
Concatenation	executing the code<./td>  Combines (concatenates) strings.	Copied! Syntax:
		1. 1
		<pre>1. concatenated_string = string1 + string2</pre>
		Copied!
		Example:
		<ol> <li>1. 1</li> <li>1. result = "Hello" + " John"</li> </ol>
		Copied!
		Example:
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
		1.
		<ol> <li># Float Value</li> <li>is_valid = True</li> </ol>
		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
		<pre>1. my_string="Hello" 2. char = my_string[0]</pre>
		Copied! Syntax:
len()	Returns the length of a string.	1. 1
		<ol> <li>len(string_name)</li> </ol>
		Copied!
		Example:
		1. 1 2. 2
		<pre>1. my_string="Hello" 2. length = len(my_string)</pre>
lower()	Converts string to lowercase.	Copied! Example:
		1. 1 2. 2
		<ol> <li>my_string="Hello"</li> <li>uppercase_text = my_string.lower()</li> </ol>
		Copied!
		Example:
print()	Prints the message or variable inside `()`.	1. 1 2. 2
		<ol> <li>print("Hello, world")</li> <li>print(a+b)</li> </ol>
Python Operators	<ul> <li>- Addition (+): Adds two values together.</li> <li>- Subtraction (-): Subtracts one value from another.</li> <li>- Multiplication (*): Multiplies two values.</li> <li>- Division (/): Divides one value by another, returns a float.</li> </ul>	Copied!
		Example:
		1. 1 2. 2 3. 3
	- Floor Division (//): Divides one value by another, returns the quotient as an	3. 3 1 4. 4



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