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## **Module 1 Cheatsheet: Python Basics**

Package/Method	Description	Code Example
Comments	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 2. # Integer Value
		<pre>3. y=12.4 4. # Float Value 5. is_valid = True</pre>
		<ul><li>6. # Boolean Value</li><li>7. is_valid = False</li><li>8. # Boolean Value</li></ul>
		9. F_Name = "John" 10. # String Value
Indexing	Accesses character at a specific index.	Copied!
		Example:  1. 1
		<ol> <li>2. 2</li> <li>1. my_string="Hello"</li> </ol>
		<pre>2. char = my_string[0]</pre>
		Copied! Syntax:
len()	Returns the length of a string.	1. 1
		<pre>1. len(string_name) Copied!</pre>
		Example:
		1. 1
		<ol> <li>2. 2</li> <li>1. my_string="Hello"</li> </ol>
lower()	Converts string to lowercase.	<pre>2. length = len(my_string) Copied!</pre>
		Example:
		1. 1 2. 2
		<ol> <li>my_string="Hello"</li> <li>uppercase_text = my_string.lower()</li> </ol>
		Copied!
		Example: 1. 1
print()	Prints the message or variable inside `()`.	<ol> <li>2. 2</li> <li>print("Hello, world")</li> </ol>
		2. print(a+b)
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> <li>Floor Division (//): Divides one value by another, returns the quotient as an</li> </ul>	Copied! Example:
		1. 1 2. 2
		3 3

26.12.2023, 22:36 about:blank integer. - Modulo (%): Returns the remainder after division. 7. 7 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 Copied! Example: replace() Replaces substrings. 1. my\_string="Hello"
2. new\_text = my\_string.replace("Hello", "Hi") Copied! Syntax: 1. 1 1. substring = string\_name[start:end] Copied! Slicing Extracts a portion of the string. Example: 1. 1 1. my\_string="Hello" substring = my\_string[0:5] Copied! Example: split() Splits string into a list based on a delimiter. my\_string="Hello" 2. split\_text = my\_string.split(",") Copied! Example: 1. 1 2. 2 Removes leading/trailing whitespace. strip() 1. my\_string="Hello"
2. trimmed = my\_string.strip() Copied! Example: upper() Converts string to uppercase. 1. my\_string="Hello"
2. uppercase\_text = my\_string.upper() Copied! Syntax: 1. 1 1. variable\_name = value Copied! Variable Assigns a value to a variable. Example: Assignment 1. name="John" # assigning John to variable name 2. x = 5 # assigning 5 to variable x



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