

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. Add	<pre>1: 1 1: # This is a comment</pre> <div>Copied</div>
Concatenation	Combines (concatenates) strings.	<pre>1: 1 1: 1 1: concatenated_string = string1 + string2</pre> <div>Copied</div> <pre>1: 1 1: 1 1: result = "Hello" + " " + "John"/n/n</pre> <div>Copied</div> <pre>1: 1 2: 2 3: 3 4: 4 5: 5 6: 6 7: 7 8: 8 9: 9 10: 10</pre> <div>Copied</div> <pre>1: 1 2: 2 # String Value 3: 3 # List Value 4: 4 # Tuple Value 5: 5 # Set Value 6: 6 # Boolean Value 7: 7 # None Value 8: 8 # Integer Value 9: 9 # Float Value 10: 10 # String Value</pre> <div>Copied</div>
Data Types	- Integer - Float - Boolean - String	<pre>1: 1 2: 2 # Integer Value 3: 3 # List Value 4: 4 # Tuple Value 5: 5 # Set Value 6: 6 # Boolean Value 7: 7 # None Value 8: 8 # Integer Value 9: 9 # Float Value 10: 10 # String Value</pre> <div>Copied</div>
Indexing	Accesses character at a specific index.	<pre>1: 1 2: 2 1: my_string="Hello" 2: char = my_string[0]</pre> <div>Copied</div> <pre>1: 1 1: len(string_name)</pre> <div>Copied</div>
len()	Returns the length of a string.	<pre>1: 1 2: 2 1: my_string="Hello" 2: length = len(my_string)</pre> <div>Copied</div>
lower()	Converts string to lowercase.	<pre>1: 1 2: 2 1: my_string="Hello" 2: lowercase_text = my_string.lower()</pre> <div>Copied</div>
print()	Prints the message or variable inside ().	<pre>1: 1 2: 2 1: print("Hello, world!") 2: print(1+2)</pre> <div>Copied</div>
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. - Modulus (%): Returns the remainder after division.	<pre>1: 1 2: 2 3: 3 4: 4 5: 5 6: 6 7: 7 1: x = 2 2: y = 3 3: result_add = x + y # Addition 4: result_sub = x - y # Subtraction 5: result_mul = x * y # Multiplication 6: result_div = x / y # Division 7: result_floordiv = x // y # Floor Division 8: result_mod = x % y # Modulus/Remainder</pre> <div>Copied</div>
replace()	Replaces substrings.	<pre>1: 1 2: 2 1: my_string="Hello" 2: new_text = my_string.replace("Hello", "Hi")</pre> <div>Copied</div>
Slicing	Extracts a portion of the string.	<pre>1: 1 1: my_string="Hello" substring = my_string[0:5]</pre> <div>Copied</div>
split()	Splits string into a list based on a delimiter.	<pre>1: 1 2: 2 1: my_string="Hello" 2: split_text = my_string.split(",")</pre> <div>Copied</div>
strip()	Removes leading/trailing whitespace.	<pre>1: 1 2: 2 1: my_string="Hello" 2: trimmed = my_string.strip()</pre> <div>Copied</div>
upper()	Converts string to uppercase.	<pre>1: 1 2: 2 1: my_string="Hello" 2: uppercase_text = my_string.upper()</pre> <div>Copied</div>
Variable Assignment	Assigns a value to a variable.	<pre>1: 1 2: 2 1: variable_name = value</pre> <div>Copied</div> <pre>1: 1 2: 2 1: name="John" # assigning John to variable name 2: x = 5 # assigning 5 to variable x</pre> <div>Copied</div>



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