

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. <i>Ad:</i>	<pre>1. 1 1. 1 # This is a comment</pre> <div>Copy</div>
Concatenation	Combines (concatenates) strings.	<pre>1. 1 1. 1 1. 1 concatenated_string = string1 + string2</pre> <div>Copy</div> <pre>1. 1 1. 1 1. 1 Example: 1. 1 1. 1 result = "Hello" + " " + "John"/n/n 1. 1</pre> <div>Copy</div> <pre>1. 1 1. 1 1. 1 1. 1 1. 1 1. 1 1. 1 1. 1 1. 1 1. 10</pre> <div>Copy</div> <pre>1. 1 1. 1 # Integer value 1. 1 1. 1 # Float value 1. 1 is_valid = True 1. 1 is_valid = False 1. 1 # Boolean value 1. 1 1. 1 # None value 1. 10 # String value</pre> <div>Copy</div>
Data Types	- Integer - Float - Boolean - String	<pre>1. 1 1. 1 1. 1 1. 1 1. 1 1. 1 1. 1 1. 1 1. 1 1. 10</pre> <div>Copy</div> <pre>1. 1 1. 1 1. 1 1. 1 1. 1 1. 1 1. 1 1. 1 1. 1 1. 10</pre> <div>Copy</div>
Indexing	Accesses character at a specific index.	<pre>1. 1 1. 1 1. 1 my_string = "Hello" 1. 1 char = my_string[0]</pre> <div>Copy</div> <pre>1. 1 1. 1 1. 1 1. 1 1. 1 1. 1 1. 1 1. 1 1. 1 1. 10</pre> <div>Copy</div>
len()	Returns the length of a string.	<pre>1. 1 1. 1 1. 1 1. 1 1. 1 1. 1 1. 1 1. 1 1. 1 1. 10</pre> <div>Copy</div>
lower()	Converts string to lowercase.	<pre>1. 1 1. 1 1. 1 1. 1 1. 1 1. 1 1. 1 1. 1 1. 1 1. 10</pre> <div>Copy</div>
print()	Prints the message or variable inside {}.	<pre>1. 1 1. 1 1. 1 1. 1 1. 1 1. 1 1. 1 1. 1 1. 1 1. 10</pre> <div>Copy</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 1. 1 1. 1 1. 1 1. 1 1. 1 1. 1 1. 1 1. 1 1. 10</pre> <div>Copy</div>
replace()	Replaces substrings.	<pre>1. 1 1. 1 1. 1 1. 1 1. 1 1. 1 1. 1 1. 1 1. 1 1. 10</pre> <div>Copy</div>
Slicing	Extracts a portion of the string.	<pre>1. 1 1. 1 1. 1 1. 1 1. 1 1. 1 1. 1 1. 1 1. 1 1. 10</pre> <div>Copy</div>
split()	Splits string into a list based on a delimiter.	<pre>1. 1 1. 1 1. 1 1. 1 1. 1 1. 1 1. 1 1. 1 1. 1 1. 10</pre> <div>Copy</div>
strip()	Removes leading/trailing whitespace.	<pre>1. 1 1. 1 1. 1 1. 1 1. 1 1. 1 1. 1 1. 1 1. 1 1. 10</pre> <div>Copy</div>
upper()	Converts string to uppercase.	<pre>1. 1 1. 1 1. 1 1. 1 1. 1 1. 1 1. 1 1. 1 1. 1 1. 10</pre> <div>Copy</div>
Variable Assignment	Assigns a value to a variable.	<pre>1. 1 1. 1 1. 1 1. 1 1. 1 1. 1 1. 1 1. 1 1. 1 1. 10</pre> <div>Copy</div>



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