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## **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>	# This is a comment
Concatenation	Combines (concatenates) strings.	<pre>Syntax:     concatenated_string = string1 + string2 Example:     result = "Hello" + " John"</pre>
Data Types	- Integer - Float - Boolean - String	<pre>Example:  x=7     # Integer Value     y=12.4     # Float Value     is_valid = True     # Boolean Value     is_valid = False     # Boolean Value     F_Name = "John"     # String Value</pre>
Indexing	Accesses character at a specific index.	Example:  my_string="Hello"  char = my_string[0]
len()	Returns the length of a string.	<pre>Syntax:     len(string_name)  Example:     my_string="Hello"     length = len(my_string)</pre>
lower()	Converts string to lowercase.	<pre>Example:     my_string="Hello"     uppercase_text = my_string.lower()</pre>
print()	Prints the message or variable inside `()`.	Example:  print("Hello, world") print(a+b)
Python Operators	<ul><li>- Addition (+): Adds two values together.</li><li>- Subtraction (-): Subtracts one value from another.</li></ul>	<pre>Example:     x = 9 y = 4     result_add= x + y # Addition     result_sub= x - y # Subtraction</pre>

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	<ul> <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 integer.</li> <li>- Modulo (%): Returns the remainder after division.</li> </ul>	<pre>result_mul= x * y # Multiplication result_div= x / y # Division result_fdiv= x // y # Floor Division result_mod= x % y # Modulo</pre>	
replace()	Replaces substrings.	<pre>Example:     my_string="Hello"     new_text = my_string.replace("Hello", "Hi")</pre>	
Slicing	Extracts a portion of the string.	<pre>Syntax:     substring = string_name[start:end] Example:     my_string="Hello" substring = my_string[0:5]</pre>	
split()	Splits string into a list based on a delimiter.	<pre>Example:     my_string="Hello"     split_text = my_string.split(",")</pre>	
strip()	Removes leading/trailing whitespace.	Example:  my_string="Hello"  trimmed = my_string.strip()	
upper()	Converts string to uppercase.	<pre>Example:     my_string="Hello"     uppercase_text = my_string.upper()</pre>	
Variable Assignment	Assigns a value to a variable.	<pre>Syntax:     variable_name = value  Example:     name="John" # assigning John to variable name     x = 5 # assigning 5 to variable x</pre>	



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