

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> | <div><div>1. 1</div><div>1. # This is a comment</div><div>Copied!</div><div>Syntax:</div><div>1. 1</div><div>1. concatenated_string = string1 + string2</div><div>Copied!</div><div>Example:</div><div>1. 1</div><div>1. result = "Hello" + " John"</td></div></div> |
| Concatenation | Combines (concatenates) strings. | <div><div>1. 1</div><div>1. result = "Hello" + " John"</td></div><div>Copied!</div><div>Example:</div><div>1. 1</div><div>2. 2</div><div>3. 3</div><div>4. 4</div><div>5. 5</div><div>6. 6</div><div>7. 7</div><div>8. 8</div><div>9. 9</div><div>10. 10</div><div>1. x=7</div><div>2. # Integer Value</div><div>3. y=12.4</div><div>4. # Float Value</div><div>5. is_valid = True</div><div>6. # Boolean Value</div><div>7. is_valid = False</div><div>8. # Boolean Value</div><div>9. F_Name = "John"</div><div>10. # String Value</div><div>Copied!</div><div>Example:</div><div>1. 1</div><div>2. 2</div><div>1. my_string="Hello"</div><div>2. char = my_string[0]</div><div>Copied!</div><div>Syntax:</div><div>1. 1</div><div>1. len(string_name)</div><div>Copied!</div><div>Example:</div><div>1. 1</div><div>2. 2</div><div>1. my_string="Hello"</div><div>2. length = len(my_string)</div><div>Copied!</div><div>Example:</div><div>1. 1</div><div>2. 2</div><div>1. my_string="Hello"</div><div>2. uppercase_text = my_string.lower()</div><div>Copied!</div><div>Example:</div><div>1. 1</div><div>2. 2</div><div>1. print("Hello, world")</div><div>2. print(a+b)</div></div> |
| Data Types | - Integer - Float - Boolean - String | |
| Indexing | Accesses character at a specific index. | |
| len() | Returns the length of a string. | |
| lower() | Converts string to lowercase. | |
| print() | Prints the message or variable inside `()``. | |

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|---------------------|---|--|
| | | <div>Copied!</div> <div>Example:</div> <div><div>1. 1</div><div>2. 2</div><div>3. 3</div><div>4. 4</div><div>5. 5</div><div>6. 6</div><div>7. 7</div></div> <div><div>1. x = 9 y = 4</div><div>2. result_add= x + y # Addition</div><div>3. result_sub= x - y # Subtraction</div><div>4. result_mul= x * y # Multiplication</div><div>5. result_div= x / y # Division</div><div>6. result_fdiv= x // y # Floor Division</div><div>7. result_mod= x % y # Modulo</td></div></div> |
| Python Operators | <div>- Addition (+): Adds two values together.</div> <div>- Subtraction (-): Subtracts one value from another.</div> <div>- Multiplication (*): Multiplies two values.</div> <div>- Division (/): Divides one value by another, returns a float.</div> <div>- Floor Division (//): Divides one value by another, returns the quotient as an integer.</div> <div>- Modulo (%): Returns the remainder after division.</div> | |
| replace() | Replaces substrings. | <div>Copied!</div> <div>Example:</div> <div><div>1. 1</div><div>2. 2</div></div> <div><div>1. my_string="Hello"</div><div>2. new_text = my_string.replace("Hello", "Hi")</div></div> |
| Slicing | Extracts a portion of the string. | <div>Copied!</div> <div>Syntax:</div> <div><div>1. 1</div><div>1. substring = string_name[start:end]</div></div> |
| split() | Splits string into a list based on a delimiter. | <div>Copied!</div> <div>Example:</div> <div><div>1. 1</div><div>1. my_string="Hello" substring = my_string[0:5]</div></div> |
| strip() | Removes leading/trailing whitespace. | <div>Copied!</div> <div>Syntax:</div> <div><div>1. 1</div><div>2. 2</div></div> <div><div>1. my_string="Hello"</div><div>2. split_text = my_string.split(",")</div></div> |
| upper() | Converts string to uppercase. | <div>Copied!</div> <div>Example:</div> <div><div>1. 1</div><div>2. 2</div></div> <div><div>1. my_string="Hello"</div><div>2. trimmed = my_string.strip()</div></div> |
| Variable Assignment | Assigns a value to a variable. | <div>Copied!</div> <div>Syntax:</div> <div><div>1. 1</div><div>1. variable_name = value</div></div> <div>Copied!</div> <div>Example:</div> <div><div>1. 1</div><div>2. 2</div></div> <div><div>1. name="John" # assigning John to variable name</div><div>2. x = 5 # assigning 5 to variable x</div></div> <div>Copied!</div> |



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