Python String Methods with Explanation and Examples

capitalize() Description: Converts the first character of the string to uppercase. Example: s = 'hello' print(s.capitalize()) # Output: 'Hello' casefold() Description: Converts the string to lowercase for caseless matching. Example: s = 'HELLO'print(s.casefold()) # Output: 'hello' center(width, char) Description: Centers the string using a specified character. Example: s = 'hello' print(s.center(10, '-')) # Output: '--hello---' count(substring) Description: Counts occurrences of a substring in the string. Example: s = 'banana' print(s.count('a')) # Output: 3

endswith(suffix)

Description: Checks if the string ends with the specified suffix.

Example:

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s = 'hello'
print(s.endswith('o')) # Output: True
find(substring)
Description: Finds the first occurrence of a substring.
Example:
s = 'hello'
print(s.find('e')) # Output: 1
index(substring)
Description: Finds the first occurrence of a substring and raises an error if not found.
Example:
s = 'hello'
print(s.index('e')) # Output: 1
isalnum()
Description: Checks if all characters are alphanumeric.
Example:
s = \text{'hello123'}
print(s.isalnum()) # Output: True
isalpha()
Description: Checks if all characters are alphabetic.
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Example:

s = 'hello'

print(s.isalpha()) # Output: True

isdigit()

Description: Checks if all characters are digits.

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Example:
s = '12345'
print(s.isdigit()) # Output: True
islower()
Description: Checks if all characters are lowercase.
Example:
s = 'hello'
print(s.islower()) # Output: True
isspace()
Description: Checks if the string contains only whitespace.
Example:
s = ' '
print(s.isspace()) # Output: True
join(iterable)
Description: Joins elements of an iterable with the string as separator.
Example:
s = '-'
print(s.join(['a', 'b', 'c'])) # Output: 'a-b-c'
lower()
Description: Converts the string to lowercase.
Example:
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s = 'HELLO'

print(s.lower()) # Output: 'hello'

replace(old, new)

Description: Replaces occurrences of a substring with another. Example: s = 'hello world' print(s.replace('world', 'Python')) # Output: 'hello Python' split() Description: Splits the string into a list of words. Example: s = 'hello world' print(s.split()) # Output: ['hello', 'world'] startswith(prefix) Description: Checks if the string starts with the specified prefix. Example: s = 'hello' print(s.startswith('he')) # Output: True strip() Description: Removes leading and trailing whitespace. Example: s = ' hello ' print(s.strip()) # Output: 'hello' title() Description: Converts the first character of each word to uppercase. Example: s = 'hello world'

print(s.title()) # Output: 'Hello World'

upper()

Description: Converts the string to uppercase.

Example:

s = 'hello'

print(s.upper()) # Output: 'HELLO'