Python String Methods Quick Reference

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Understanding Strings in Python

Strings are sequences of characters enclosed within single, double, or triple quotes. String methods are built-in functions in Python that allow us to easily manipulate and validate strings.

1. len() Function

Usage: To find the length of a string.

Syntax: len(string)

Example:

```
my_string = "Hello World!"
string_length = len(my_string)
print(string_length) # Output: 12
```

2. String Manipulation Methods

```
a) str.upper()
```

Usage: Converts all characters in string to uppercase.

Syntax: string.upper()

Example:

```
my_string = "hello"
upper_string = my_string.upper()
print(upper_string) # Output: HELLO
```

```
b) str.lower()
```

Usage: Converts all characters in string to lowercase.

Syntax: string.lower()

Example:

```
my_string = "WORLD"
lower_string = my_string.lower()
print(lower_string) # Output: world
```

3. String Validation Methods

```
a) str.isdigit()
```

Usage: Returns True if all characters in the text are digits.

Syntax: string.isdigit()

Example:

```
my_string = "12345"
result = my_string.isdigit()
print(result) # Output: True
```

b) str.isalpha()

Usage: Returns True if all characters in the text are alphabets.

Syntax: string.isalpha()

Example:

```
my_string = "hello"
result = my_string.isalpha()
print(result) # Output: True
```

4. Finding Substrings

```
a) str.startswith()
```

Usage: Checks if the string starts with a certain substring.

Syntax: string.startswith(substring)

Example:

```
my_string = "Hello World"
result = my_string.startswith('Hello')
print(result) # Output: True
```

b) str.endswith()

Usage: Checks if the string ends with a certain substring.

Syntax: string.endswith(substring)

Example:

```
my_string = "Hello World"
result = my_string.endswith('World')
print(result) # Output: True
```

Tips

• You can combine different string methods to perform more complex operations.