## **String Advanced Methods**

isnumeric(): This method returns True if all the characters in a string are numeric.

```
In [ ]: string = "12345"
         print(string.isnumeric()) # output: True
         string = "12ab3"
         print(string.isnumeric()) # output: False
         False
         isprintable(): This method returns True if all the characters in a string are printable.
In [ ]: string = "Hello, World!\n"
         print(string.isprintable()) # output: False
         string = "Hello, World!"
         print(string.isprintable()) # output: True
         False
         True
         isspace(): This method returns True if all the characters in a string are whitespace.
In [ ]: string = "
         print(string.isspace()) # output: True
         string = " Hello "
         print(string.isspace()) # output: False
         True
         False
         istitle(): This method returns True if the string follows the rules of title case.
In [ ]: string = "Hello, World"
         print(string.istitle()) # output: True
         string = "hello, world"
         print(string.istitle()) # output: False
         True
         False
         isupper(): This method returns True if all the characters in a string are uppercase.
In [ ]: string = "HELLO, WORLD"
         print(string.isupper()) # output: True
         string = "Hello, World"
         print(string.isupper()) # output: False
```

True False join(): This method joins a sequence of strings into a single string.

```
In [ ]: list_of_strings = ["hello", "world"]
    delimiter = " "
    string = delimiter.join(list_of_strings)
    print(string) # output: "hello world"
```

hello world

ljust(): This method pads a string with a specified character on the left until it reaches a specified width.

```
In []: string = "hello"
   width = 10
   padding_char = "-"
   padded_string = string.ljust(width, padding_char)
   print(padded_string) # output: "hello-----"
```

hello----

lower(): This method returns a string in lowercase.

```
In [ ]: string = "HELLO"
    print(string.lower()) # output: "hello"
```

hello

maketrans(): This method returns a translation table that can be used with the translate() method to replace specified characters.

```
In []: old_chars = "aeiou"
    new_chars = "12345"
    translation_table = str.maketrans(old_chars, new_chars)
    string = "hello world"
    print(string.translate(translation_table)) # output: "h2ll4 w4rld"
```

h2114 w4rld

partition(): This method splits a string into a tuple containing the part before the first occurrence of a specified substring, the substring itself, and the part after.

removeprefix(): This method removes a specified prefix from a string.

```
In [ ]: string = "hello world"
    prefix = "hello"
    print(string.removeprefix(prefix)) # output: " world"
```

world

removesuffix(): This method removes a specified suffix from a string.

```
In [ ]: string = "hello world"
suffix = "world"
```

```
print(string.removesuffix(suffix)) # output: "hello "
```

hello

replace(): This method replaces all occurrences of a specified substring with another substring.

```
In [ ]: string = "hello world"
   old_substring = "world"
   new_substring = "python"
   print(string.replace(old_substring, new_substring)) # output: "hello python"
```

hello python

rfind(): This method returns the index of the last occurrence of a specified substring in a string.

```
In [ ]: string = "hello world"
    substring = "o"
    print(string.rfind(substring)) # output: 7
```

7

rindex(): This method returns the index of the last occurrence of a specified substring in a string, or raises a ValueError if the substring is not found.

```
In [ ]: string = "hello world"
    substring = "o"
    print(string.rindex(substring)) # output: 7

    string = "hello world"
    substring = "x"
    print(string.rindex(substring)) # ERROR: raises ValueError
```

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rjust(): This method pads a string with a specified character on the right until it reaches a specified width.

```
In [ ]: string = "hello"
width = 10
padding_char = "-"
```

```
padded_string = string.rjust(width, padding_char)
         print(padded_string) # output: "----hello"
         ----hello
         rpartition(): This method splits a string into a tuple containing the part before the last
         occurrence of a specified substring, the substring itself, and the part after.
In [ ]: string = "hello world"
         print(string.rpartition(" ")) # output: ("hello", " ", "world")
         ('hello', ' ', 'world')
         rsplit(): This method splits a string into a list of substrings, starting from the right.
In [ ]: string = "hello world"
         print(string.rsplit(" ")) # output: ["hello", "world"]
         ['hello', 'world']
         rstrip(): This method removes any whitespace characters from the end of a string.
In [ ]: string = " hello
         print(string.rstrip()) # output: " hello"
            hello
         split(): This method splits a string into a list of substrings.
In [ ]: string = "hello world"
         print(string.split(" ")) # output: ["hello", "world"]
         ['hello', 'world']
         splitlines(): This method splits a string into a list of lines.
In [ ]: string = "hello\nworld"
         print(string.splitlines()) # output: ["hello", "world"]
         ['hello', 'world']
         startswith(): This method returns True if a string starts with a specified substring.
In [ ]: string = "hello world"
         substring = "hello"
         print(string.startswith(substring)) # output: True
         True
         strip(): This method removes any whitespace characters from the beginning and end of a
         string.
In [ ]: string = " hello
         print(string.strip()) # output: "hello"
         hello
         swapcase(): This method swaps the case of all the characters in a string.
```

```
In []: string = "Hello, World"
    print(string.swapcase()) # output: "hELLO, wORLD"
    hELLO, wORLD
    title(): This method returns a string in title case.

In []: string = "hello, world"
    print(string.title()) # output: "Hello, World"
    Hello, World
    translate(): This method replaces specified characters in a string using a translation table.

In []: old_chars = "aeiou"
    new_chars = "12345"
    translation_table = str.maketrans(old_chars, new_chars)
    string = "hello world"
```

print(string.translate(translation\_table)) # output: "h2ll4 w4rld"

h2ll4 w4rld