

Python Programming

String Methods

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String Methods

- capitalize()
- center()
- casefold()
- count()
- **endswith()**
- expandtabs()
- encode()
- **find()**
- **format()**
- **index()**
- **isalnum()**
- isalpha()
- **isdecimal()**
- isdigit()
- isidentifier()
- **islower()**
- isnumeric()
- isprintable()
- **isspace()**
- istitle()
- **isupper()**
- join()
- ljust()
- rjust()
- **lower()**
- **upper()**
- swapcase()
- lstrip()
- rstrip()
- **strip()**
- partition()
- maketrans()
- rpartition()
- translate()
- **replace()**
- **rfind()**
- rindex()
- **split()**
- rsplit()
- **splitlines()**
- **startswith()**
- title()
- zfill()
- format_map()

Methods

```
3 print('abcDEF'.lower()) ..... # abcdef : conver to lower letters
4 print('abcDEF'.upper()) ..... # ABCDEF : conver to upper letters
5
6 print('abc'.islower()) ..... # True : all cased characters in S are lowercase?
7 print('ABC'.isupper()) ..... # True: all cased characters in S are uppercase?
8 print('123'.isdecimal()) ..... # True : all characters in S are 0 to 9?
9
10 print('abcdef'.startswith('abc')) ..... # True
11 print('abcdef'.startswith('abcD')) ..... # False
12 print('abcdef'.endswith('def')) ..... # True
13
14 print('abcbcd'.find('bc')) ..... # 1 lowest index
15 print('abcbcd'.find('xx')) ..... # -1 if not exist
16 print('abcbcd'.rfind('bc')) ..... # 4 highest index
17 #print('abcbcd'.index('xx')) ..... # same as finds, but ValueError if not found
18
19 print('HiHiHi'.count('Hi')) ..... # 3 occurrences for Hi
20 print('AAAA'.count('AA')) ..... # 2 occurrences NOT 3
21
```

Methods

```
2 print(' '.isspace()) .....# True
3 print('\n'.isspace()) .....# True
4 print('\t'.isspace()) .....# True
5
6 print('\n\tHello\t'.strip()) .....# Hello
7
8 print('Hi Jack? Hi'.replace('Hi', 'Most')) .....# Most Jack? Most
9
10 print('\nI am 33 '.split()) .....# ['I', 'am', '33']
11
12 print('Hey\nHow\nAre you?'.splitlines()) .....# ['Hey', 'How', 'Are you?']
13
```

Split Method

```
1
2 # by default split based on space
3 print('\n\nthey mostafa'.split())
4 # ['hey', 'mostafa']
5
6 print(' I am mostafa,saad,ibrahim'.split())
7 # ['I', 'am', 'mostafa,saad,ibrahim']
8
9 print(' I am mostafa,saad,ibrahim'.split(','))
10 # [' I am mostafa', 'saad', 'ibrahim']
11
12 print(' I am mostafa,saad,ibrahim'.split('a'))
13 # [' I ', 'm most', 'f', 's', ' ', 'd,ibr', 'him']
14
15 print('\n\nthey mostafa'.split(' '))
16 # ['\n\nthey', 'mostafa']
17
18 print('1,,2'.split(','))
19 # ['1', '', '', '2']
20
21 input().split()
22
```

Join Method

```
2
3 lst = ['a', 'bb', 'ccc']
4
5 print(''.join(lst)) # abbccc
6
7 print(', '.join(lst)) # a,bb,ccc *** most common case
8
9 print('#$#'.join(lst)) # a#$#bb#$#ccc
10
11 # join takes an iterable: list, string, tuple, dict, set
12 # join them with the used string
13
14 s1 = 'abc'
15 s2 = '12345'
16 print(s1.join(s2)) # 1abc2abc3abc4abc5
17
18 print(s2.join(s1)) # a12345b12345c
```

“Acquire knowledge and impart it to the people.”

“Seek knowledge from the Cradle to the Grave.”