

# STRING

## Escape character

```
In [10]: print("Hello there!\nHow are you?\nI\'m doing fine.")
```

```
Hello there!  
How are you?  
I'm doing fine.
```

## row string

```
In [16]: print(r"Hello there!\nHow are you?\nI\'m doing fine.")
```

```
Hello there!\nHow are you?\nI\'m doing fine.
```

## multiline string

```
In [25]: print(  
        """ Dear Alice,  
        Eve's cat has been arrested for catnapping,  
        cat burglary,and extortion.  
  
        scicerealy,  
        Bob""")
```

```
Dear Alice,  
    Eve's cat has been arrested for catnapping,  
    cat burglary,and extortion.  
  
    scicerealy,  
    Bob
```

## Indexiing & slicing

```
In [29]: spam='Hello world!'
```

```
In [31]: spam
```

```
Out[31]: 'Hello world!'
```

```
In [33]: spam[0]
```

```
Out[33]: 'H'
```

```
In [35]: spam[4]
```

Out[35]: 'o'

In [37]: spam[-1]

Out[37]: 'l'

## Slicing

In [40]: spam[0:5]

Out[40]: 'Hello'

In [42]: spam[:5]

Out[42]: 'Hello'

In [44]: spam[6:-1]

Out[44]: 'world'

In [47]: spam[::-1]

Out[47]: '!dlrow olleH'

In [49]: spam[::-1]

Out[49]: 'Hello world'

## the in & not operator

In [56]: 'hello' in 'hello world'

Out[56]: True

In [58]: 'HELLO' in 'hello world'

Out[58]: False

In [60]: 'cat' not in 'cat and dog'

Out[60]: False

## upper(),lower() & title()

In [63]: spam

Out[63]: 'Hello world!'

In [65]: spam.upper()

Out[65]: 'HELLO WORLD!'

```
In [67]: spam.lower()
```

Out[67]: 'hello world!'

```
In [69]: spam.title()
```

Out[69]: 'Hello World!'

## is upper() & is lower() methods

```
In [88]: spam='Hello World'  
spam
```

Out[88]: 'Hello World'

```
In [90]: spam.isupper()
```

Out[90]: False

```
In [92]: spam.islower()
```

Out[92]: False

```
In [94]: spam.istitle()
```

Out[94]: True

```
In [97]: 'HELLO'.isupper()
```

Out[97]: True

```
In [99]: 'hello'.islower()
```

Out[99]: True

## startswith & endswith

```
In [4]: 'hello world!'.startswith('hello')
```

Out[4]: True

```
In [12]: 'hello world!'.endswith('world!')
```

Out[12]: True

```
In [14]: 'abc123'.startswith('abcde')
```

Out[14]: False

## join() & split()

```
In [17]: ''.join(['my','name','is','gudu'])
```

```
Out[17]: 'mynameisgudu'
```

```
In [21]: ' '.join(['my','name','is','gudu'])
```

```
Out[21]: 'my name is gudu'
```

```
In [23]: ' abc '.join(['my','name','is','gudu'])
```

```
Out[23]: 'my abc name abc is abc gudu'
```

```
In [25]: 'my name is gudu.'.split()
```

```
Out[25]: ['my', 'name', 'is', 'gudu.']
```

```
In [27]: 'my abc name abc is abc gudu'.split('abc')
```

```
Out[27]: ['my ', ' name ', ' is ', ' gudu']
```

```
In [29]: 'my name is gudu'.split('m')
```

```
Out[29]: ['', 'y na', 'e is gudu']
```

## rjust(),ljust(),center()

```
In [32]: 'hello'.rjust(10)
```

```
Out[32]: '      hello'
```

```
In [34]: 'hello'.ljust(10)
```

```
Out[34]: 'hello      '
```

```
In [36]: 'hello'.center(10)
```

```
Out[36]: '  hello  '
```

```
In [40]: 'hello'.center(20, '*')
```

```
Out[40]: '*****hello*****'
```

## removing white space

## strip(),rstrip()&lstrip()

```
In [51]: spam='    hello world!    '
spam
```

```
Out[51]: '    hello world!    '
```

```
In [53]: spam.strip()
```

```
Out[53]: 'hello world!'
```

```
In [55]: spam.lstrip()
```

```
Out[55]: 'hello world!    '
```

```
In [57]: spam.rstrip()
```

```
Out[57]: '    hello world!'
```

## count method

```
In [60]: sen='one sheep two sheep three sheep four'
sen
```

```
Out[60]: 'one sheep two sheep three sheep four'
```

```
In [62]: sen.count('e')
```

```
Out[62]: 9
```

```
In [64]: sen.count('sheep')
```

```
Out[64]: 3
```

```
In [66]: sen.count('e',6)
```

```
Out[66]: 8
```

## replace method

```
In [87]: text="Hello World1"
text
```

```
Out[87]: 'Hello World1'
```

```
In [89]: text.replace("World1","planet")
```

```
Out[89]: 'Hello planet'
```

```
In [92]: fruits='apple,banana,cherry,apple'
fruits
```

```
Out[92]: 'apple,banana,cherry,apple'
```

```
In [100... fruits.replace('apple','orange',1)
```

```
Out[100... 'orange,banana,cherry,apple'
```

```
In [102... sentence = "I like apples, Apples are my favorite fruit"  
sentence.replace("apples", "oranges")
```

```
Out[102... 'I like oranges, Apples are my favorite fruit'
```

```
In [ ]:
```

## string assignment completed.