

PYTHON PROGRAMMING

GATE DA/DSA

String Methods in Python

1. strip
2. lstrip
- 3.rstrip
4. split
5. rsplit
6. join
7. replace
8. upper
9. lower
10. isupper
11. islower
12. capitalize
13. isalpha
14. isnumeric
15. isalnum
16. count
17. find
18. rfind
19. index
20. rindex

String Operations
↳ Slicing
↳ formatting
↳ +, *,

~~/ a .. Rohit Sharma .. b /~~
↑ ↑
a .. Rohit Sharma (E)
↑
(S)
strip('..')

a .. Rohit Sharma .. b

strip('..Ra')
↓
↑

~~/ a / / Rohit Sharma .. b /~~
↑ ↑
ohit Sharma (E) .. b
↑
S

~~a~~ ~~b~~ Rohit Sharma ~~a~~ ~~b~~ strip('Rabm')

ohit Shar

strip() ← combines both methodologies of lstrip() & rstrip()

Rohit Sharma_

lstrip() empty space
 not parsing

'Rohit Sharma_'

rstrip() empty string

'Rohit Sharma'

2. split()

separator = "_", max_split = -1

Var-2 → Students_ are_ attending_ Python_ class.

(1) (2) (3) (4) (5)

var-s. split()

["Students", "are", "attending", "Python", "class"]
sentence = _____
100

Rohit, Vinit, Pant and sky were best
split(' ', '
["Rohit", "Vinit", "Pant and sky were best"]

['Rohit', 'Vinit', 'Pant and sky were best']

All the best for your exam
1 2 3 4 5
['All', 'the', 'best', 'for', 'your', 'exam']
maxsplit = 2
['All', 'the', 'best for your exam']

["All", "the", "best for your exams"]
["All the best for", "your", "exams"]

Join:

“ ”.join(iterable)
↑

string
link
tuple
dictionary

" \ominus " \cdot join ("RBR")

R-B-R

"_".join("RBR Venky")
(R-B-R- -V-e-n-k-y)

S = "India"

"Win".join(2)

India

I Win n Wind win i Win a

Stamm = "Viret Kohle"

statement. Count ('i')

Statement: $\forall i \in \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$

statement . count (' i ' , 2 , 11) \rightarrow 1

↑ start index end index

find: returns the lowest index where the
substring is found or '-1' if not found.

$$-h\omega'$$

Diagram illustrating the relationship between Python and a Course:

- Python** (List 1): Contains elements 0, 1, 2, 3, 4, 5, 6. The element **Python** is circled in blue.
- Course** (List 2): Contains elements 7, 8, 9, 10, 11, 12. The element **Course** is circled in blue.
- A blue line connects the circled **Python** in List 1 to the circled **Course** in List 2.
- A blue arrow points from index 3 in List 1 to index 3 in List 2.

Python Course - Python

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21

find ————— first occurrence index

find last occurrence index

Strings — Operations & Methods (standard)

Next sat

List of types
Sets & Dictionaries