String Methods in Python

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9. lower
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19. index
20. rindex

```
# strip

name = "Rohit Sharma"

name.strip()
```

```
'Rohit Sharma'
```

```
name = "  Rohit Sharma"

name.strip()
```

```
'Rohit Sharma'
```

```
name = "  Rohit Sharma   "

name.strip()
```

```
'Rohit Sharma'
```

```
name = ".a..Rohit Sharma..b."

name.strip(".")
```

```
'a..Rohit Sharma..b'
```

```
name = ".a..Rohit Sharma..b."

name.strip(".Ra")
```

```
'ohit Sharma..b'
```

```
name = ".a..Rohit Sharma..b."

name.strip(".rabm")
```

```
'Rohit Sh'
```

```
# lstrip

name = ".a..Rohit Sharma..b."

name.lstrip(".Rabm")
```

```
'ohit Sharma..b.'
```

```
# lstrip

name = " .a..Rohit Sharma..b. "

name.lstrip()
```

```
'.a..Rohit Sharma..b. '
```

```
# rstrip

name = ".a..Rohit Sharma..b."

name.rstrip(".rabm")
```

```
'.a..Rohit Sh'
```

```
# rstrip

name = " .a..Rohit Sharma..b. "

name.rstrip()
```

```
' .a..Rohit Sharma..b.'
```

```
# split

message = "All the best for your GATE 2025 Exams"

message.split()
```

```
['All', 'the', 'best', 'for', 'your', 'GATE', '2025', 'Exams']
```

```
# split

message = "Rohit, Virat, Pant, and Surya were the India's best batters"

message.split()
```

```
['Rohit,',
 'Virat,',
 'Pant,',
 'and',
 'Surya',
 'were',
 'the',
 "India's",
 'best',
 'batters']
```

```
message = "Rohit, Virat, Pant, and Surya were the India's best batters"

m = message.split("Virat")
for l in m:
  print(l)
```

```
Rohit,
, Pant, and Surya were the India's best batters
```

```
message = "Rohit, Virat, Pant, and Surya were the India's best batters"

message.split(', ')
```

```
['Rohit', 'Virat', 'Pant', "and Surya were the India's best batters"]
```

```
message = "All the best for your GATE 2025 Exams"

message.split(" ", maxsplit = 3)
```

```
['All', 'the', 'best', 'for your GATE 2025 Exams']
```

```
message = "All the best for your GATE 2025 Exams"

message.rsplit()
```

```
['All', 'the', 'best', 'for', 'your', 'GATE', '2025', 'Exams']
```

```
message = "All the best for your GATE 2025 Exams"

message.rsplit(" ", maxsplit=2)
```

```
['All the best for your GATE', '2025', 'Exams']
```

```
message = "Rohit, Virat, Pant, and Surya were the India's best batters"

m = message.rsplit("Virat")
for l in m:
  print(l)
```

```
Rohit,
, Pant, and Surya were the India's best batters
```

```
message = "All the best for your GATE 2025 Exams"
print(message.split(maxsplit=2))
print(message.rsplit(maxsplit=2))
```

```
['All', 'the', 'best for your GATE 2025 Exams']
['All the best for your GATE', '2025', 'Exams']
```

```
gate_instructors = "RBR JayBansal Hari Venkatesh"

"-".join(gate_instructors)
```

```
'R-B-R- -J-a-y-B-a-n-s-a-l- -H-a-r-i- -V-e-n-k-a-t-e-s-h'
```

```
match_day = "India-Pakistan"

"vs".join(match_day)
```

```
'Ivsnvsdvsivsavs-vsPvsavskvsivssvstvsavsn'
```

```
match_day = "India-Pakistan"

"IndiaWin".join(match_day)
```

```
'IIndiaWinnIndiaWindIndiaWiniIndiaWinaIndiaWin-IndiaWinPIndiaWinaIndiaWinkIndiaWiniI
ndiaWinsIndiaWintIndiaWinaIndiaWinn'
```

```
l = ["Python", "is", "going", "good"]
s = "-".join(l) # Python is going good
print(s)
```

```
Python-is-going-good
```

```
l = [1,2,3]
" ".join(l)
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
<ipython-input-44-2af722aa51b6> in <cell line: 2>()
      1 l = [1,2,3]
----> 2 " ".join(l)

TypeError: sequence item 0: expected str instance, int found
```

Next steps: Explain error

```
l = [1,2,3]
" ".join()
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
<ipython-input-45-48af4ecde5aa> in <cell line: 2>()
      1 l = [1,2,3]
----> 2 " ".join()

TypeError: str.join() takes exactly one argument (0 given)
```

Next steps: Explain error

```
len(dir(str))
```

```
80
```

```
# replace

ind_players = "Virat, Rohit, Sky, Pant, Dube, Hardik, Jadeja, Bumrah"

ind_players.replace('Dube', "Rinku")
```

```
'Virat, Rohit, Sky, Pant, Rinku, Hardik, Jadeja, Bumrah'
```

```
ind_players = "Virat, Rohit, Sky, Pant, Shivam Dube, Hardik, Jadeja, Bumrah, Shubham Dube"

ind_players.replace('Dube', "Rinku")
```

```
'Virat, Rohit, Sky, Pant, Shivam Rinku, Hardik, Jadeja, Bumrah, Shubham Rinku'
```

```
ind_players = "Virat, Rohit, Sky, Pant, Dube, Hardik, Jadeja, Bumrah, Dube"

ind_players.replace('Dube', "XYZ")
```

```
'Virat, Rohit, Sky, Pant, XYZ, Hardik, Jadeja, Bumrah, XYZ'
```

```
ind_players = "Virat, Rohit, Sky, Pant, Shivam Dube, Dube, Dube, Dube, Hardik, Jadeja, Bumrah, Shubham Dube"

ind_players.replace('Dube', "Rinku", 2)
```

```
'Virat, Rohit, Sky, Pant, Shivam Rinku, Rinku, Dube, Dube, Hardik, Jadeja, Bumrah, S
hubham Dube'
```

```
ind_players = "Virat, Rohit, Sky, Pant, Shivam Dube, Dube, Dube, Dube, Hardik, Jadeja, Bumrah, Shubham Dube"

ind_players.replace('a', "***", 3)
```

```
'Vir***t, Rohit, Sky, P***nt, Shiv***m Dube, Dube, Dube, Dube, Hardik, Jadeja, Bumra
h, Shubham Dube'
```

```
# upper

name = "Venkatesh"

name.upper()
```

```
'VENKATESH'
```

```
name = "venkatesh"

name.upper()
```

```
'VENKATESH'
```

```
name = "v298enkate@$%sh"

name.upper()
```

```
'V298ENKATE@$%SH'
```

```
# lower
name = "Venkatesh"

name.lower()
```

```
'venkatesh'
```

```
# lower
name = "VENKATESH"

name.lower()
```

```
'venkatesh'
```

```
stri = "V298ENKATE@$%SH"
stri.lower()
```

```
'v298enkate@$%sh'
```

```
name = "VENKATESH"

name.islower()
```

```
False
```

```
name = "venkatesH"

name.islower()
```

```
False
```

```
name = "venkatesh"

name.islower()
```

```
True
```

```
name = "venk0320120%^@atesh"

name.islower()
```

```
True
```

```
name = "venk0320120%^@ateHh"

name.islower()
```

```
False
```

```
# upper

name.isupper()
```

```
name = "anushka Sharma"

name.capitalize()
```

```
'Anushka sharma'
```

```
name = "AnUshkA ShaRma"

name.capitalize()
```

```
'Anushka sharma'
```

```
name = "2136976$%Lokesh Parab"

name.capitalize()
```

```
'2136976$%lokesh parab'
```

```
name = "PyThon ProGramming - by VirAt KOHli"

name.swapcase() # lower to upper and upper to lower
```

```
'pYtHON pROgRAMMING - BY vIRaT kohLI'
```

```
code = "Code Red"

code.isalpha()
```

```
False
```

```
code = "CodeRed"

code.isalpha()
```

```
True
```

```
code = "Code+Red"

code.isalpha() # a to z or A to Z , if u have spaces, numbers, or other operators then it will return fals
```

```
False
```

```
code = "CodeRed43"

code.isalpha()
```

```
False
```

```
cricket_score = "234"
cricket_score.isnumeric()
```

```
True
```

```
cricket_score = "234.0"
cricket_score.isnumeric()
```

```
False
```

```
cricket_score = "-2340"
cricket_score.isnumeric()
```

```
False
```

```
cricket_score = "\123"
cricket_score.isnumeric()
```

```
False
```

```
# isalnum

s = "Virat18"

s.isalnum()
```

```
True
```

```
s = "Virat scored 183"

s.isalnum()
```

```
False
```

```
s = "PersonAscored-10inExamduetonegativemarking"

s.isalnum()
```

```
False
```

```
# count

statement = "Virat is the best player of our generation and Virat scored 50 centuries in ODI. Virat is 35 years c

statement.count("Virat")
```

```
3
```

```
statement = "Virat is the best player of our generation and Virat scored 50 centuries in ODI. Virat is 35 years c

statement.count("i")
```

```
8
```

```
statement = "Virat is the best player of our generation and Virat scored 50 centuries in ODI. Virat is 35 years o

statement.count("Virat", 2, 30)
```

```
0
```

```
name = "Virat Kohli"

name.count("i",1,10)
```

```
1
```

```
# find

statement = "Python Course - Python"

statement.find("ho")
```

```
3
```

```
# find

statement = "Python Course - Python"

statement.find("oh")
```

```
-1
```

```
# rfind

statement = "Python Course - Python"

statement.rfind("ho")
```

```
19
```

```
# rfind

statement = "Python Course"
print(statement.find("ho"))
print(statement.rfind("ho"))
```

```
3
3
```

```
# rfind

statement = "Python Course - Python"

statement.rfind("oh")
```

```
-1
```

```
# index

statement = "Python Course - Python"

statement.index("ho")
```

```
3
```

```
# index

statement = "Python Course - Python"
```

```
statement.index("oh")
```

```
---------------------------------------------------------------------------
ValueError                                Traceback (most recent call last)
<ipython-input-106-9b424f6cfac9> in <cell line: 5>()
      3 statement = "Python Course - Python"
      4
----> 5 statement.index("oh")

ValueError: substring not found
```

Next steps: Explain error

```
# rindex

statement = "Python Course - Python"

statement.rindex("ho")
```

```
19
```

```
# index

statement = "Python Course - Python"

statement.rindex("oh")
```

```
---------------------------------------------------------------------------
ValueError                                Traceback (most recent call last)
<ipython-input-107-ecbeaddd64fd> in <cell line: 5>()
      3 statement = "Python Course - Python"
      4
----> 5 statement.rindex("oh")

ValueError: substring not found
```

Next steps: Explain error

```
# https://www.w3schools.com/python/python_ref_string.asp

# https://www.geeksforgeeks.org/python-string-methods/
```