

Full stack web development using python

str

Part-1



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Agenda

- ① str introduction
- ② creating str object
- ③ indexing
- ④ accessing str elements
- ⑤ built-in methods
- ⑥ Concatenation and repetition
- ⑦ Comparison operator
- ⑧ str object methods

STR

STR is a class

STR is immutable

STR is iterable

STR is hashable

STR is a sequence

How to create str object?

S1 = "MySirG"

S2 = 'MySirG'

S3 = """MySirG"""

S4 = '''MySirG'''

S5 = str()

S6 = str(125)

S7 = str(3.45)

indexing

$s1 = "MySirG"$

$s1[0]$ M
 $s1[-1]$ G
 $s1[2]$ S

-6	-5	-4	-3	-2	-1
0	1	2	3	4	5

M	y	S	i	r	G
---	---	---	---	---	---

Accessing str elements

- ① `s1[index]`
- ② `print(s1)`
- ③ `for loop`
- ④ `slicing operator`

strObject[: :]

beg end step

The diagram shows the string "strObject[: :]" in red. Above it, three labels are written in blue: "beg", "end", and "step". Blue arrows point from each label to one of the three colons in the string. "beg" points to the first colon, "end" points to the second, and "step" points to the third.

buit-in methods

len()

min()

max()

sum()

sorted()

Concatenation and Repetition Operator

$S_1 + S_2$

$S_1 = "ABC"$

$S_1 + S_2$

$S_2 = "DE"$

"ABCDE"

$S_1 * 3$

$S_2 * 3$ "DEDEDE"

Comparison Operator

$s_1 > s_2 \rightarrow$ True if s_1 comes after s_2
in dictionary order

Str object methods

index()
count()
startswith()
endswith()
split()
join()
format()
isdigit()
islower()
isupper()
lower()
upper()
replace()

Split

s1 = "mysing education services"

l1 = s1.split(' ')

split function returns a list of
splitted strings

l1 = ["mysing", "education", "services"]

join()

```
l1 = ["mysirg", "education", "services"]
```

```
space = " "
```

```
s2 = space.join(l1)
```

join will return a string which is formed by joining elements of l1 with the help of spaces.