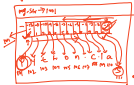


my\_str = "Python class"



String Indexing

↳ 0-2, 0-9, ...

↳ Included into memory when we start Python.



"Python"



id(my\_str) → 100  
id(my\_str[0]) → 100

Indexing → accessing one element at a time.

my\_str = "Python class"

print(my\_str[0]) → 'P'

print(my\_str[1]) → 'y'

print(my\_str[-1]) → 's'

print(my\_str[-2]) → 's'

print(my\_str[0]) → 'P'  
print(my\_str[-12]) → 'P'  
print(my\_str[-len(my\_str)])

len(my\_str) → 12

Python class indexing → 0

my\_str.index('n') → 5

index  
ind < (len(my\_str))



String operation → Take a piece out of a string

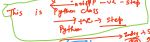
Indexing → one element at a time

my\_str = "This is Python class"

Syntax → my\_str[start:stop:step]

step → +ve - Slicing will be done from left to right

-ve - Slicing will be done from right to left



my\_str = "This is Python class"

my\_str[5:14:] → Python

Slicing will be done till (stop index - 1)

my\_str[5:14:] → Python

Slicing 'Python' in reverse

my\_str[-7:-12:] → not typ ✓

my\_str[7:-3:-1] → 'not typ' ✓

my\_str[3:-1] → 'not typ' ✗

This is Python class

→ Conflicting → Empty string

my\_str[3:-1] → 'not typ'

Conclusion

① For +ve step values → start index should be on left side of stop index.

② For -ve step values → start index should be on right of stop index.

step → +ve/-ve

step → +1, +2, +3, ...



my\_str = "This is Python class at learning"

my\_str[3:14:] → Python

my\_str[5:14:2] → Python

my\_str[3:4] → Py

If step is +ve

↳ default start index is 0

↳ default stop index = len(my\_str)

If step is -ve

default start = -1

stop = -(len(my\_str) + 1)