

S = 'P y t h o n'  
0 1 2 3 4 5  
-6 -5 -4 -3 -2 -1

s[start\_index : stop\_index]  
└──────────┘ will be excluded

default start index: 0

default stop index: length of the string

default slicing direction: towards right side

S = 'P y t h o n'  
0 1 2 3 4 5  
-6 -5 -4 -3 -2 -1

s[start\_index : stop\_index : step\_size]  
└──────────┘ will be excluded

default start index: 0

default stop index: length of the string

default slicing direction: towards right side

default step\_size: 1

S = 'Python'  
0 1 2 3 4 5  
-6 -5 -4 -3 -2 -1

S[start\_index : stop\_index : step\_size]  
└──────────┘ will be excluded

S[1:5:1]

① Extract string data based on start\_index and stop\_index

y t h o

② apply step\_size on extracted string data

y t h o  
.  
y t h o

S = 'Python'  
0 1 2 3 4 5  
-6 -5 -4 -3 -2 -1

S[start\_index : stop\_index : step\_size]  
└──────────┘ will be excluded

S[1:5:2]

① Extract string data based on start\_index and stop\_index

y t h o

② apply step\_size on extracted string data

y t h o  
y h

S = 'Python'  
0 1 2 3 4 5  
-6 -5 -4 -3 -2 -1

S[start\_index : stop\_index : step\_size]  
└──────────┘ will be excluded

S[1 : 5 : 3]

① Extract string data based on start\_index and stop\_index

y t h o

② apply step\_size on extracted string data

y t h o  
y o

S = 'Python'  
0 1 2 3 4 5  
-6 -5 -4 -3 -2 -1

S[start\_index : stop\_index : step\_size]  
└──────────┘ will be excluded

S[1 : 5 : 1]

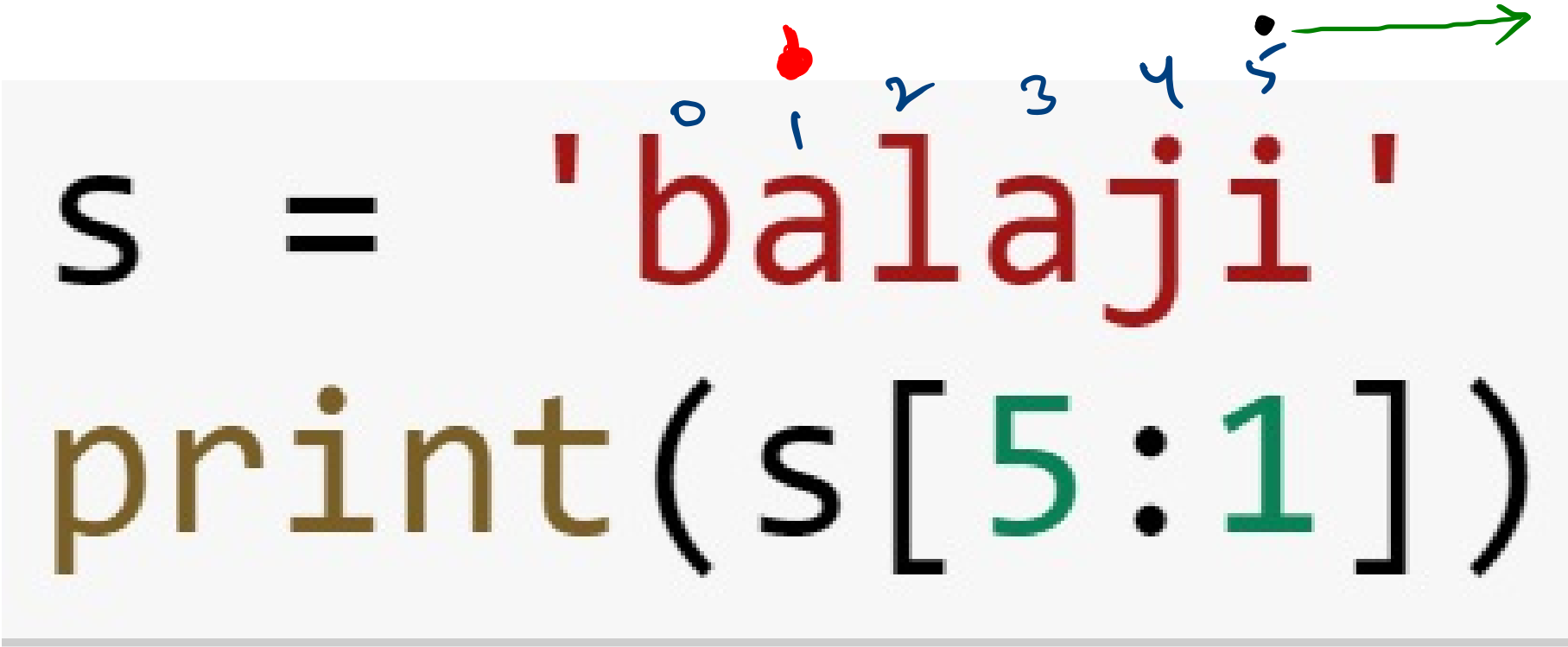
① Extract string data based on start\_index and stop\_index

ytho

② apply step\_size on extracted string data


ytho  
y

```
s = 'balaji'  
print(s[5:1])
```



Empty

```
s = 'balaji'  
print(s[2:2:2])
```



Empty



`S = 'python'`

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

slicing direction depends on step\_size sign

step\_size sign +ve : towards right side

step\_size sign -ve : towards left side

```
s = 'python'
print(s[::-1])
```

nohtyp

$s[-1:-7:-1]$

S = 'python'

0	1	2	3	4	5
p	y	t	h	o	n
-6	-5	-4	-3	-2	-1

Step\_Size Sign: +ve

default start\_index: 0

default stop\_index: length of the string

slicing direction: towards right side

Step\_Size Sign: -ve

default start\_index: -1

default stop\_index: -length of the string - 1

slicing direction: towards left side

Note:

slicing direction  
doesn't depends on  
start\_index and stop\_index  
sign.

`s = 'python'`

0 1 2 3 4 5  
p y t h o n  
-6 -5 -4 -3 -2 -1

`s[1:3:-1]` Empty

`s[-1:1:-2]` nh

`s[4:-5:1]` Empty

`s[-6:6:]` python