```
s = 'python'
print(s.startswith('y',1))
```

0 1 2 3 4 5

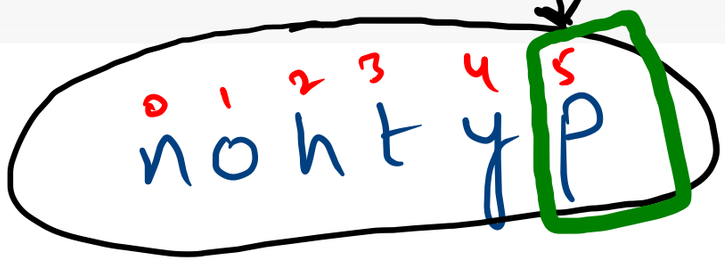
start index

default start index : 0

default stop index : length of the string

True

```python
s = 'python'
print(s[::-1].startswith('p',5))
```



True

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

① ②

True

Error

```
s = 'python'
print(s.endswith('o',0,5))
```

0 1 2 3 4 5

True

string.center( )

```
[ ]  s = 'python'
     print(s.center(10,'*'))
```

result string length

① will prepare string with 10 '*'s. * * * * * * * * * *

② middle of the '*'s replace with PYthon

* * * * * * * * * *
  p y t h o n

* * P y t h o n * *

```
s = 'python'
print(s.center(11,'*'))
```

even

***python**

11 − 6 ⇒ 5/2 ⇒ 2 (end)

5 − 2 ⇒ 3 (start)

odd

```
s = 'pythoon'
print(s.center(10,'*'))
```

10 − 7 ⇒ 3/2 ⇒ 1 (start)

3 − 1 ⇒ 2 (end)

*Pythoon**

```
s = 'I have {2} {0} and {1} notes'
print(s.format(10,20,50))
# I have 50 10 and 20 notes
```

data: excel.

① load data from file

② s = "..." "..." string data

③ loop

10 ⇒

to: n1@gmail.com

s.format(n1)

send