find()

In [3]:
```
# find()
# return index of first occurence of the given subString
# if it is not available then we will get (-1)
s='Learning Python is very easy'
print(s.find('a'))
print(s.find('s'))
print(s.find('x'))
print(s.find('Python'))
print(s.find('python'))
```

```
2
17
-1
9
-1
```

In [9]:
```
# s.find(substring,begit,end)
print(s.find('a',7,26))
```

```
25
```

count()

In [22]:
```
s='abcdddddabcdxyzxyza  '
print(s.count('a'))
print(s.count('d'))
print(s.count('abcd'))
print(s.count('p'))
print(s.count(' '))
```

```
3
6
2
0
2
```

In [23]:
```
#s.count(substring,begit,end)
print(s.count('a',8,15))
```

```
1
```

replace()

In [96]:
```
#to replce old string with new string
# s.replace(old string,new string, number)
s='Learning java is easy'
x=s.replace('a',' bbbb ',1)
print(x)
```

```
Le bbbb rning java is easy
```

split()

In [51]:
```
#split(separator)-> we can split the given string according to specified separator b
#default separator is space.
# the return type of split()method is list
#split(')
s='HHello          worldd'

l=s.split()
print(l)
```

```
l=s.split('l') # if cher beetween letter then it give number of letter -1 empty stri
print(l)

l=s.split('d')
print(l)

l=s.split('H')
print(l)
```

```
['HHello', 'worldd']
['HHe', '', 'o          wor', 'dd']
['HHello          worl', '', '']
['', '', 'ello          worldd']
```

In [50]:
```
s='29-10-2025'
l=s.split('-')
print(l)
```

```
['29', '10', '2025']
```

translate() with marketrans() function

In [53]:
```
import string
print(string.punctuation)
print(len(string.punctuation))
```

```
!"#$%&'()*+,-./:;<=>?@[\]^_`{|}~
32
```

maketrans()

In [ ]:
```
# make translate table
# mapping of charecter to their replacement or to name for deletion
# maketrans(from_chars,tochars,delete_chars)
```

translate()

In [ ]:
```
# Applis to translation table created by maketrans()
# return new Strign= with charecter replaced or deleter according to table
```

In [67]:
```
import string
s='py$@th!!on'
l=s.maketrans("","",string.punctuation)
print(l)
# !"#$%&'()*+,-./:;<=>?@[\]^_`{|}~ = 32
print()

x=s.translate(l)
print(x)

l=s.maketrans("","","@$")
print(l)
x=s.translate(l)
print(x)

print()

l=s.maketrans("n","m","$")
print(l)
x=s.translate(l)
print(x)
```

```
print()
```

```
{33: None, 34: None, 35: None, 36: None, 37: None, 38: None, 39: None, 40: None, 41:
None, 42: None, 43: None, 44: None, 45: None, 46: None, 47: None, 58: None, 59: None,
60: None, 61: None, 62: None, 63: None, 64: None, 91: None, 92: None, 93: None, 94: N
one, 95: None, 96: None, 123: None, 124: None, 125: None, 126: None}

python
{64: None, 36: None}
pyth!!on

{110: 109, 36: None}
py@th!!om
```

In [69]:
```
t='Hello Sem'
x='mSa'
y='eJo'
table=t.maketrans(x,y)
print(table)
print(t.translate(table))
```

```
{109: 101, 83: 74, 97: 111}
Hello Jee
```

In [70]:
```
t='Hello Sem'
x='mSa'
y='eJoa'# x and y both length must be same
table=t.maketrans(x,y)
```

```
---------------------------------------------------------------------------
ValueError                                Traceback (most recent call last)
<ipython-input-70-ea21acef3b23> in <module>
      2 x='mSa'
      3 y='eJoa'
----> 4 table=t.maketrans(x,y)

ValueError: the first two maketrans arguments must have equal length
```

In [72]:
```
#Q wpp replace each special symbol with # in folloving string
s='/*John is @developer & musician!!'

t=s.maketrans(string.punctuation,32*'#')
print(s.translate(t))
```

```
##John is #developer # musician##
##John is #developer # musician##
```

In [90]:
```
s='/*John is @developer & musician!!'
for i in s:
    if not i.isalnum() and  i!=' ':
        s=s.replace(i,'#')
print(s)
#-------------------------------------------
s='/*John is @developer & musician!!'

l=string.punctuation
for i in s:
    if i in l:
        s=s.replace(i,'#')
print(s)
#-------------------------------------------
s='/*John is @developer & musician!!'
for i in string.punctuation:
    s=s.replace(i,'#')
print(s)
```

```
##John is #developer # musician##
##John is #developer # musician##
##John is #developer # musician##
```

In [99]:
```
# wpp to remove i'th char from string
i=int(input("Enter number:"))
s='Hello world'
print(s.replace(s[i],'',1))
# or
print(s[:i]+s[i+1:])
```

```
Enter number:10
Hello worl
Hello worl
```

In [105…
```
# wpp find count of all occurances of substring in a give string by ignoring case
s='Welcome to USA. usa is awesome. Usa is good. Usain bolt is American'.lower()
print(s.count('usa'))
```

```
4
```

In [116…
```
# WPP to display all position of substring in a given string
s='aaaabcdabcacdab'
sub='a'
a=0
c=0
for i in s:
    if i==sub:
        c=c+1
        print(a)
    a=a+1
else:
    print('count=',c)
```

```
0
1
2
3
7
10
13
count= 7
```

In [131…
```
#WPP to merge char of two string into single string by taking char alternetively
x='abcaaa'
y='123'
c=''
for i in range(min(len(x),len(y))):
    c=c+x[i]+y[i]
else:
    if len(x)==min(len(x),len(y)):
        c=c+y[i+1:]
    else:
        c=c+x[i+1:]

print(c)
```

```
a1b2c3aaa
```

In [ ]: