

```
In [1]: #string
myName = "Ahmed 3mad"
type(myName)
```

Out[1]: str

```
In [2]: myName = 'Ahmed "3mad"'
print (myName)

Ahmed "3mad"
```

```
In [4]: # tribble single (double Qute) ' '' '' '' ''
myName = '''Ahmed
Emad
ibrahim '''
print (myName)

Ahmed
Emad
ibrahim
```

```
In [ ]: #all data in python is objects
#objects are contain elements
#elements has two own index
#python start by zero index
#use square bracket to access element
@enable access part of string
```

```
In [11]: #sting_indexing and slicing
#index = process one element

myName = "Ahmed Emad Ibrahim "
print (myName[6 ])
print (myName [-14])

E
```

```
In [ ]: #slicing
#process multi items
#[start : end]
#[start : end : steps]
#end not included
```

```
In [13]: myName = "Ahmed Emad Ibrahim "
print (myName[0:5 ])#Ahmed
print (myName[13:16 ])#rah

Ahmed
rah
```

```
In [28]: myName = "Ahmed Emad Ibrahim "
print (myName[:5 ]) #if start is not here ..start from zero
print (myName[6: ]) #if the end not here >>go to the end
print (myName[: ]) #print all string
print (myName[:: ])
print (myName[::1 ])
print (myName[4:6:2 ])
print (myName[4:8:1 ])#d to m

Ahmed
Emad Ibrahim
Ahmed Emad Ibrahim
Ahmed Emad Ibrahim
Ahmed Emad Ibrahim
d
d Em
```

```
In [ ]: #string methods
#1=len
#2= strip
```

```
In [35]: myname = "      Ahmed Emad      "
print (len(myname))
print (myname.strip())
print (myname.lstrip())
print (myname.rstrip())
myname = "####      Ahmed Emad      ##"
print (myname.strip("#"))

20
Ahmed Emad
Ahmed Emad
      Ahmed Emad
      Ahmed Emad
```

```
In [36]: #title()

a= "i am 22 years old"
print (a.title())

I Am 22 Years Old
```

```
In [45]: #capitalaize

a= "i am 22 years old"
print (a.capitalize())

I am 22 years old
```

```
In [38]: #upper
#lower
a = "AHMED"
b= "ahmed"
print (a.lower())
print (b.upper())

ahmed
AHMED
```

```
In [44]: #zfill

a , b , c , d = "42" , " 42" , "488" ,"45555"
print (a.zfill(5))
print (b.zfill(5))
print (c.zfill(5))
print (d.zfill(5))

00042
00 42
00488
45555
```

```
In [63]: #split

a = 'i love python and php'
print (a.split())

b = 'ilovepythonandphp'
print (a.split())

c = 'i-love-python-and-php'
print (c.split("-",1))

d = 'i-love-python-and-php'
print (d.rsplit("-",2))

['i', 'love', 'python', 'and', 'php']
['i', 'love', 'python', 'and', 'php']
['i', 'love-python-and-php']
['i-love-python', 'and', 'php']
```

```
In [64]: #center
a = "ahmed"
print (a.center(15,"#"))

#####ahmed#####
```

```
In [68]: #count

a = "i love ALAhly and Barcelona and ALAhly is the century club "
print (a.count('ALAhly'))
print (a.count('ALAhly',0,30))

2
1
```

```
In [ ]: #startswith

a = "i love ALAhly and Barcelona and ALAhly is the century club "
print (a.startswith("i"))
print (a.startswith("f"))
print (a.startswith("i",4,78))
print (a.endswith("b"))
```

```
In [4]: #replace

a = ("ahmed emad ibrahem ")
print (a.replace("emad", " "))

ahmed  ibrahem
```

```
In [5]: #join

mylist = ["ahmed" , 'emad' , '22']
print (".".join(mylist))

ahmed-emad-22
```

```
In [9]: #old way
#string format
name ="ahmed"
age = 22
print ("my name is : %s"%name)
print ("my name is : %s and my age is:%d"%(name,age) )

# %S is string
# %d is number
# %f is float

my name is : ahmed
my name is : ahmed and my age is:22
```

```
In [12]: a = "i love ALAhly and Barcelona and ALAhly is the century club "
print ("i am unstoppale today %.13s"%a)

i am unstoppale today i love ALAhly
```

```
In [ ]: #new way
#string format
```

```
In [13]: name ="ahmed"
age = 22
print ("my name is : {}".format (name))
print ("my name is : {} and my age is:{} ".format(name,age) )

my name is : ahmed
my name is : ahmed and my age is:22
```

```
In [17]: a , b ,c = "one" , "two" , "three"
print ("hello {0} {2} {1}".format (a ,b , c))

hello one three two
```

```
In [20]: a , b ,c = 1 , 4 , 5
print ("hello {1:2f} {2:f} {0:7f}".format (a ,b , c))

hello 4.000000 5.000000 1.000000
```