

String is a sequence of character

Strings in python are surrounded by either single quotation marks, or double quotation marks.

In Python, string is an immutable sequence data type.

In [1]:

```
str1='This is a string in Python'  
print(str1)
```

This is a string in Python

In [2]:

```
len(str1)
```

Out[2]:

26

In [3]:

```
str2="This is a string in Python"  
print(str2)
```

This is a string in Python

In [4]:

```
#Multi-line strings must be embed in triple quotes, as shown below.
```

```
str1=''This is  
the first  
Multi-line string.  
''  
print(str1)
```

This is
the first
Multi-line string.

In [5]:

```
str5="""This is  
the second  
Multi-line  
string."""  
print(str5)
```

This is
the second
Multi-line
string.

In [6]:

```
str1='Welcome to "Python Tutorial" at DeveLearn'  
print(str1)
```

Welcome to "Python Tutorial" at DeveLearn

In [7]:

```
str2="Welcome to 'Python Tutorial' on at DeveLearn"  
print(str2)
```

Welcome to 'Python Tutorial' on at DeveLearn

In [8]:

```
greet='Hello'  
len(greet)  
5
```

Out[8]:

5

In [9]:

```
#positive indexing  
greet='hello'  
greet[0]
```

Out[9]:

'h'

In [10]:

```
greet[5]
```

-
IndexError Traceback (most recent call last)

~\AppData\Local\Temp\ipykernel_27288\1031943716.py in <module>

----> 1 greet[5]

IndexError: string index out of range

In [11]:

```
#negative indexing  
greet='hello'  
greet[-5]
```

Out[11]:

'h'

In [12]:

```
#immutable object hence it is not possible to modify it.  
greet='hello'  
greet[0]='A'
```

-
TypeError Traceback (most recent call last)

~\AppData\Local\Temp\ipykernel_27288\3542102789.py in <module>

1 *#immutable object hence it is not possible to modify it.*

2 greet='hello'

----> 3 greet[0]='A'

TypeError: 'str' object does not support item assignment

In [13]:

```
greet='hello'  
type(greet)
```

Out[13]:

str

In [14]:

```
str2="Welcome to 'Python Tutorial' at DeveLearn"  
str2[-10]
```

Out[14]:

' '

In [15]:

```
greet[1:5]
```

Out[15]:

```
'ello'
```

In [16]:

```
str2 = "Welcome to DeveLearn"  
str2[0:8]
```

Out[16]:

```
'Welcome '
```

In [17]:

```
str2[4:9]
```

Out[17]:

```
'ome t'
```

In [18]:

```
str2[1:-1]
```

Out[18]:

```
'elcome to DeveLear'
```

In [19]:

```
str2[-20:30]
```

Out[19]:

```
'Welcome to DeveLearn'
```

In [20]:

```
str2[-1:1:-1]
```

Out[20]:

```
'nraeLeveD ot emocl'
```

In [21]:

```
str2="Welcome to 'Python Tutorial' at DeveLearn"  
str2[1:8:2]
```

Out[21]:

```
'ecm '
```

In [22]:

```
str2[-1:]
```

Out[22]:

```
'n'
```

In [23]:

```
str2[: -1]
```

Out[23]:

```
"Welcome to 'Python Tutorial' at DeveLearn"
```

In [24]:

```
str2="Welcome to 'Python Tutorial' on at DeveLearn"  
len(str2)
```

Out[24]:

```
44
```

In [25]:

```
i=1
```

In [26]:

```
str2[-1::-1]
```

Out[26]:

```
"nraeLeveD ta no 'lairotuT nohtyP' ot emocleW"
```

In [27]:

```
str2[-3:-8:-2]
```

Out[27]:

```
'aLv'
```

String Functions

lower()

upper()

title()

capitalize()

In [28]:

```
a = "My Name Is Sanvee"  
a.lower()
```

Out[28]:

```
'my name is sanvee'
```

In [29]:

```
a.count('e')
```

Out[29]:

```
3
```

In [30]:

```
a.swapcase()
```

Out[30]:

```
'mY nAME iS sANVEE'
```

In [31]:

```
a1 = 'Hi'  
a1.center(6)
```

Out[31]:

```
'  Hi  '
```

In [32]:

```
a.split()
```

Out[32]:

```
['My', 'Name', 'Is', 'Sanvee']
```

In [33]:

```
a.index("a",8,20)
```

Out[33]:

```
12
```

In [34]:

```
a.upper()
```

Out[34]:

```
'MY NAME IS SANVEE'
```

In [35]:

```
print("hello students \nwelcome to nettech")
```

```
hello students
welcome to nettech
```

In [36]:

```
B = "MY NAME IS SANVEE"
```

In [37]:

```
B.title()
```

Out[37]:

```
'My Name Is Sanvee'
```

In [38]:

```
B.capitalize()
```

Out[38]:

```
'My name is sanvee'
```

In []:

In []:

In []: