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 [60]:
```

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

This is a string in Python

```
In [61]:
```

```
len(str1)
Out[61]:
26
In [62]:
str2="This is a string in Python"
print(str2)
```

This is a string in Python

In [63]:

```
#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 [64]:

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

This is the second Multi-line string.

```
In [65]:
str1='Welcome to "Python Tutorial" at NetTech'
print(str1)
Welcome to "Python Tutorial" at NetTech
In [66]:
str2="Welcome to 'Python Tutorial' on at NetTech"
print(str2)
Welcome to 'Python Tutorial' on at NetTech
In [67]:
greet='Hello'
len(greet)
Out[67]:
5
In [69]:
#positive indexing
greet='hello'
greet[0]
Out[69]:
'h'
In [70]:
greet[5]
                                            Traceback (most recent call last)
IndexError
<ipython-input-70-92e7014796c6> in <module>()
----> 1 greet[5]
IndexError: string index out of range
In [71]:
#negative indexing
greet='hello'
greet[-5]
Out[71]:
'h'
```

```
In [72]:
#unmutable object hence it is not possible to modify it.
greet='hello'
greet[0]='A'
                                            Traceback (most recent call last)
TypeError
<ipython-input-72-b51ef677656f> in <module>()
      1 #unmutable 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 [73]:
greet='hello'
type(greet)
Out[73]:
str
In [81]:
str2="Welcome to 'Python Tutorial' at NetTech"
str2[-10]
Out[81]:
'a'
In [82]:
greet[1:5]
Out[82]:
'ello'
In [83]:
str2[0:7]
Out[83]:
'Welcome'
In [84]:
str2[4:9]
```

Out[84]:

'ome t'

```
In [85]:
str2[1:-1]
Out[85]:
"elcome to 'Python Tutorial' at NetTec"
In [86]:
str2[-1:1]
Out[86]:
In [88]:
str2="Welcome to 'Python Tutorial' on at NetTech"
str2[1:8:2]
Out[88]:
'ecm '
In [89]:
str2[-1:]
Out[89]:
'h'
In [ ]:
str2[:-1]
In [114]:
str2="Welcome to 'Python Tutorial' on at NetTech"
len(str2)
Out[114]:
42
In [111]:
i=1
Out[111]:
'0b1011001'
In [ ]:
str2[-1::-1]
```

```
In [95]:
str2[-3:-8:-2]
Out[95]:
'etN'
###String Functions lower()
upper()
title()
capitalize()
In [115]:
a = "My Name Is Sanvee"
a.lower()
Out[115]:
'my name is sanvee'
In [116]:
a.upper()
Out[116]:
'MY NAME IS SANVEE'
In [129]:
print("hello students \nwelcome to nettech")
hello students
welcome to nettech
In [117]:
B = "MY NAME IS SANVEE"
In [118]:
B.title()
Out[118]:
'My Name Is Sanvee'
In [119]:
B.capitalize()
Out[119]:
'My name is sanvee'
```

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