

## Python (Strings)

Python Strings is all about the working with strings and manipulation of Strings, using String Operators and string methods and Functions. First, let us understand that how do we declare the strings in python programming language. We can declar and print the strings by placing them in single Quotes ('..'), Double Quotes (".."), and using the print function too. Python Strings are Immutable (An Object with a fixed value).

Using the Strings in single quotes ('...')

>>> 'hello world'	
'hello world'	A sale and a sale
nello world	

Below command will give an error.

>>> 'let's start' # this will give us an error

File ",stdin>, line 1

'let's do it'

A

SyntaxError: invalid syntax

### To overcome that we must use a scape character \

>>> 'let\'start'
"let's start"

## Using the Strings in Double quotes ("...")

>>> "let's start" # using double quotes to avoid escape character

"let's start"

## Using the Strings in Print() function

>>>print("let's start") # we have enclose the strings in double quotation is side print funtion

let's start



Using the 3 double quotes start and end of the string allows us to print the data including spaces and newlines.

>>>print('**"let's			
start			
Now'**')			
let's			
start			
now			1,100

#### **String Concatenation:**

Multiple Strings can be concatenated using (+) symbol. Let us see the example of concatenating the strings.

#### Example:

```
>>> x="hello"
>>> y="world"
>>>X+A
'helloworld'
```

#### **String Repetition:**

String repetition can be performed by using the (\*) symbol. Let us see the example of repetition of strings.

#### Example:

```
>>> 3*"hello"
'hellohellohello'
```

Strings are indexed with each character in a memory location when assigned to a variable. The indexed number starts from zero '0' from first character till he end of the string. Whereas, reverse indexing starts with '-1' from right to left until the starting character. Let us try few examples of retrieving the characters from a word PYTHON in either ways.



#### Example:

```
>>> x="P Y T H O N" # Word python is written without spaces
    012345
   -6-5-4-3-2-1
>>>x[3]
'H'
>>>x[-5]
'Y'
                     # Starting from first character, 4th position excluded
>>>x[:4]
'PYTH'
                     # Starting from fourth character from right, 4th position excluded
>>>x[:-4]
'PY'
                     # Starting from first character till end
>>>X[0:]
'PYTHON'
                     # Starting from -6th position until start ie., -1 postion
>>>x[-6:]
'PYTHON'
```

#### String Methods in Python:

Python String Methods	Description
capitalize()	Returns the String with first Character as Capital Letter
casefold()	Returns a casefolded copy
center(width[, fillchar])	This will pads the string with a character specified
count(sub[, start[, end]])	Returns the number of occurances of substring in string
encode(encoding="utf-8", errors="strict")	returns an encoded string
endswith(suffix[, start[, end]])	Check the string if it ends with the sp cified



oartition(sep)	Returns a tuple	
just(width[, fillchar])	Returns the string right justified	
index(sub[, start[, end]])	Returns Highest Index but raises when substring i	
find(sub[, start[, end]])	Returns the Highest Index	
eplace(old, new[, count])	replaces the substring	
oartition(sep)	returns a tuple	
strip([chars])	Removes Leading Characters	
lower()	returns lowercased string	
ljust(width[, fillchar])	returns left-justified string	
join(iterable)	returns concatenated string	
isupper()	Checks if all characters are Uppercase	
istitle()	Returns true if the string is titlecased	
isspace()	Checks for Whitespace Characters	
isprintable()	Checks for Printable Char	
isnumeric()	Checks for Numeric Char	
islower()	checks for lowercase of all alphabets in string	
isidentifier()	checks for valid Identifier	
isdigit()	Checks for digit char	
isdecimal()	Checks for decimal characters	
isalpha()	Checks if all characters are Alphabets	
isalnum()	checks for alphanumeric Char	
index(sub[, start[, end]])	returns the index of substring	
format_map(mapping)	formats the string except the mapping is directly used	
format(*args, **kwargs)	formats the string	
find(sub[, start[, end]])	returns the highest index	
expandtabs(tabsize=8)	Replace the tab with space	



# Python Handout - 03

Splits String From Right
Removes Trailing Characters
Splits String from Left
Splits String at Lines
Checks if String Starts with the Specified String
Removes Both Leading and Trailing Characters
swap uppercase characters to lowe case and vice versa
Returns a Title Cased String
returns mapped charactered string
returns uppercased string
Returns a Copy of The String Padded With Zeros

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