

* String datatype in Python...

What is String?

A sequence of characters enclosed in single quote ('') double quotes (""), were triple quotes.

Example:

greet = 'Hello' Single Quote

mom = "World" Double Quotes

Address = "" Flat 23, Avinash Apartments, Multiline String

Ekta Nagar, Osmanpura,

Auxangabad """

As like Numbers, Strings are also "Immutable"

That means if you change anything in a string using its

methods, then a completely mew string object is returned.

For Example:

name = "Shaill"

capitalizedName = name. uppex();

print (F" My mame is: { name y");

print (F" Id of name is: { id (name)y")

print (F" Name in Uppercase: { capitalizedNamey")

print (F" Id of Name in uppercase: { id (capitalizedName)y")



Here, I'll get different Id's Which proves that String is

String Operations:

Concatenation

joins two strings.

print ("Hello" + "World")
Olp: Hello World.

Repetition

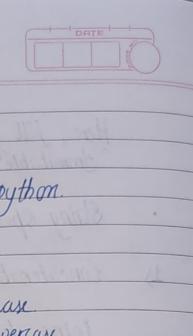
Print ("ha" *3)
Olp: huhaha.

Indexing.

As string is a sequence of characters, these characters up a string can be accused via undexing.

language = "python"

print (language Lo]) // p. point (language [1]) 11 y print (language[2])11 print (Conquage [3]) 11 h print (language [4]) 110 print (language[5]) 11 n



Commonly used string methods in python. Lase Conversion

String Methods.

- upper() → Transforms a string to uppercase.

 lower () → Transforms a string to Lowerran

 capital () → Transforms first letter of a string to uppercase.

 title () → Transforms each Word's first letter into uppercase.

 Swapcase () → Transforms lowercase letters to uppercase 4 via versa.
- 2. Whitespaa & cleaning...
 - strip(): Irims sturting + trailing whitespaces. 1strip(): Irims Left Whitespaces in a string rstrip(): Irims right Whitespaces in a string
 - 3. Search + check.
 - sturts with (substring) -> checks if the provided string starts with provided substring.
 - endswith (substring) -> checks if the provided string stends with provided substring.
 - Find (substring) gives you index of provided substring.
- · count (substring) gives the count of occurrence of substring



Replace + Modify

replace (old, new) - replaces a substring with another one split (definitex) - splits a string into a list

rsplit (delimite) - splits string from right.

splitlines () - converts multiline string into list of lines join (itexable) - Comcatinates item of an itexable into a single string

Natidation / checking

This methods returns True False

isalnum () → checks if a string contains conly letters + numbers is alpha () → checks if a string contains only letters.

isdigit () - checks if a string contains only digits.

is Leumal () - checks if a string contains only decimal digits

isspace () - checks if a string contains only whitespaces

18 lower () - checks if a string is in lowercase

isupper () → checks if a string is in uppercase

istitle () - checks if a string is in title-case