

String & CRUD operation

-Python Series

String

- Strings in python are surrounded by either single quotation marks, or double quotation marks.
- Even triple quotes can be used in Python but generally used to represent multiline strings.

Continue..

- Python does not have a character data type, a single character is simply a string with a length of 1.

Create with Single quotes

```
String1 = 'Welcome to the Reviving India'  
print(String1)  
print(type(String1))
```

Continue..

str = "HELLO"

H	E	L	L	O
0	1	2	3	4

str[0] = 'H'

str[1] = 'E'

str[2] = 'L'

str[3] = 'L'

str[4] = 'O'

Double quotes

```
String1 = "Welcome to the Reviving India"  
print(String1)  
print(type(String1))
```

Triple quotes

```
String1 = ""Python Tutorial""  
String2 = """ Hello world"""  
print(String1,String2)  
print(type(String1),type(String2))
```

Read or Access String

- Complete String
- Single substring
- Multiple substring

Continue...

- String can be accessed by using the method of Indexing.
- Indexing allows both positive & negative address references to access characters
- 0 refers 1st character from the beginning and so on
- -1 refers to the last character, -2 refers to the second last character and so on.

Continue..

```
String1 = 'Welcome to the Reviving India'
```

```
print(String1) #Complete String
```

```
print(String1 [0]) #1st substring
```

```
print(String1 [-1]) #Last substring
```

```
print(String1 [0:5]) #Mutiple substring
```

Update

- Updating of substring from a String is not allowed.
- This will cause an error because **item assignment** from a String is not supported.

Insert

- Inserting of substring from a String is not allowed.
- This will cause an error because **item assignment** from a String is not supported.
- But we can achieve this through string concatenation ($c = a+b$)

Delete

- Deletion of entire string is possible with the use of del keyword but deletion of characters from a String is not allowed
- del <string_name>