

31/10/23  
Tue.

## String:-

- String is non-numeric data type.
- String is a collection of characters. These characters can be alphabets, digits or special characters.
- String which consists of alphabets is called alphabetic string.
- String which consists of alphabets or digits is called alphanumeric string.
- String is a collection type or sequence type.
- String is an immutable sequence data type.
- In Python string is represented:-
  - i) within single quotes.
  - ii) within double "
  - iii) within triple single quotes or double quotes.

- \* within single quotes, Python programmer represent single line string.
- \* within double quotes, we can insert double quotes.

Eg:-  

```
>>> S1 = "Python"  
>>> S1  
"Python"
```

Eg:-

```
>>> S2 = 'Python 3.12'  
>>> S2  
'Python 3.12'
```

Eg:-

```
>>> S3 = '45'  
>>> n1 = 45  
>>> n1 + 40  
95
```

```
>>> S3 + 10
```

↳ ~~TypeError~~ Error

(string + int cannot concatenate).



```
>>> s4 = 'Python is "high" programming lang'
print(s4)
```

```
>>> s5 = 'Python is a 'high level' prog. lang'.
SyntaxError: invalid syntax.
```

```
>>> s6 = (Python is a
SyntaxError: invalid syntax,
```

```
>>> str1 = "python"
```

```
>>> print(str1)
```

python

```
>>> str2 = "python3.12"
```

```
>>> print(str2)
```

python3.12

```
>>> str3 = "45"
```

```
>>> print(str3)
```

45.

```
>>> str4 = "Python is high level.
```

SyntaxError: incomplete input.

```
>>> str5 = "Python is 'high level' prog. lang".
```

```
>>> print(str5)
```

Python is 'high level' prog. lang.

# Within triple single quotes or double quotes: we can represent multiline string.

```
>>> s1 s1 = "suresh"
```

```
>>> s1
```

suresh.

```
>>> Roll no = 24
```

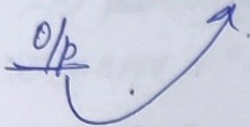
```
>>> Rollno
```

24.



Eg:- triple single quotes.

```
>>> str1 = """ Python is a programming language
which consists 5 Module
Module 1: Python
Module 2: Database
Module 3: UI
Module 4: Backend
Module 5: Tools """
```

O/p 

Eg:-  
>>> str2 = """ Python is  
a programming  
language """

>>> str2

O/p Python is  
a programming  
language.

## # How we write comments in python?

- In python comments are created using # (pound sign)
- It is used to create single line comment.
- Python doesn't support multiple line comments.

Eg. test.py

```
# This is my first prog. in python.
```

```
>>> print("hello")
```

O/p hello.

Eg2:- test2.py

```
a = """ Python is a prog. lang """
```

```
print("Hello")
```

```
print(a)
```

O/p Hello

Python is a prog. lang.



\* Indent → space  
↳ indentation.

# Indent:- Space given at the beginning of the statement is called indent.

\* Indent is used to create block.

Note:-

# Every program requires 3 things:-

1) Output

2) Input

3) Process.

# print()

→ print() is a predefined function in Python.

→ print() is a standard o/p function, this function is used to print data or information on console/monitor.

→ print function requires input to print data or information.

→ print function is having 3 ~~values~~ inputs.

1) data/values

2) separator (sep)

3) end.

• if no input is given to print function, it inserts blank lines.

01/11/23  
Wed

Ex:-  
print()  
print()  
print()  
print()

} each print gives 1 blank o/p.

Eg:- For printing more than 1 value:-

>>> print(10, 20, 30, 40, 50) → separated by comma.

>>> print(1, "hello", "world", 2000.0)

>>> print(10, 20, 30, 40, 50, sep="\$")

↓  
separated by dollar sign.