

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



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# Chapter-3

# Strings

## ➤ **Strings:**

String is a collection of alphabets, words or other characters.

- **Types of string:**
  - i. **Single quotes**
  - ii. **Double quotes**
  - iii. **Triple quotes**



## **Program:**

```
python > string.py > ...
1  #single quotes str
2  name= 'alia'
3  print('single quotes str:\n' ,name)
4  #double quotes str
5  name= "waseam"
6  print(" double quotes str:\n" ,name)
7  #triple quotes str
8  name= '''saira'''
9  print(''''triple quotes str:\n''' ,name)
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL

```
PS D:\software h> python -u "d:\software h\python\string.py"
single quotes str:
alia
double quotes str:
waseam
triple quotes str:
saira
PS D:\software h>
```

## ➤ String slicing:

String slicing in Python is about obtaining a sub-string from the given string by slicing it respectively from start to end.

### EXAMPLE:

```
python > stringslice.py > ...
1
2 #str length
3 c = str(input("enter any jop office \n"))
4 print(len(c))
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS D:\software h> python -u "d:\software h\python\stringslice.py"
enter any jop office
Iplex software house in islamabad
33
PS D:\software h>
```

### EXAMPLE 2:

```
python > stringslice.py > ...
5 |
6 # you know
7 # slice= name[integer_start : integer_end]
8 str ="aliasaeed"
9 #slice start with 0 and end with 5
10 # but print 0 to 4 because in slice not include end identifier
11 print(str[0:5])
12 #
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS D:\software h> python -u "d:\software h\python\stringslice.py"
alias
PS D:\software h>
```

### EXAMPLE 3:

```
python > stringslice.py > ...
9  #slice start with 0 and end with 5
10 # but print 0 to 4 because in slice not include end identifier
11 #print(str[0:5])
12 str = "aliasaeed"
13 # end with 4
14 print(str[4:])
15

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

PS D:\software h> python -u "d:\software h\python\stringslice.py"
saeed
PS D:\software h>
```

## ➤ String function in Python:

❖ Some function of string in python are given:

```
python > string function.py > ...
1  # 1: len() function
2  str = str(input("enter any jop office \n"))
3  print(len(str))
4
5  #string count
6  print(str.count("a"))
7
8  #string capitalize
9  print(str.capitalize())
10
11 #string find
12 print(str.find("in"))
13
14 #string replacewith
15 print(str.replace("iplex", "G5"))
16
17 #string endswith
18 print(str.endswith("islamabad"))
19
20 #string lowercase
21 print(str.lower())
22
23 #string uppercase
24 print(str.upper())
```

## Output

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL

```
PS D:\software h> python -u "d:\software h\python\string function.py"
enter any jop office
iplex software house in islamabad
33
4
Iplex software house in islamabad
21
G5 software house in islamabad
True
iplex software house in islamabad
IPLEX SOFTWARE HOUSE IN ISLAMABAD
PS D:\software h> █
```

## ➤ Escape sequence character:

An escape sequence is a sequence of characters that, when used inside a character or string, does not represent itself but is converted into another character



## Program

```
python > escap.py > ...
1  #escape sequence character
2  #new line
3  name = str(input("university name \n"))
4  print(name , "\n")
5  #tab
6  name = str(input("name \t\t"))
7  print(name , "\t")
8  #single quotes
9  name = str(input("\'name \'"))
10 print(name , "\t")
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL

```
PS D:\software h> python -u "d:\software h\python\escap.py"
university name
isamia university bahawalpur
isamia university bahawalpur

name           ALIA SAEED
ALIA SAEED
'name 'SAIRA SAEED
SAIRA SAEED
PS D:\software h> 
```