بِسْمِ اللهِ الرَّحْمٰنِ الرَّحِيْمِ

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Program:

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Semester:

7thth

Subject:

Web design & framework

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➤ **String:**

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

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

✦ **Program:**

```python
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:\sofware h> python -u "d:\sofware h\python\string.py"
single quotes str:
 alia
 double quotes str:
 waseam
triple quotes str:
 saira
PS D:\sofware 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
1
2    #str length
3    c = str(input("enter any jop office \n"))
4    print(len(c))
```

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL                              +

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

🔸 **EXAMPLE 2:**

```python
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 t0 4 because in slice not include end indentifier
11   print(str[0:5])
12   #
```

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL

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

🔸 **EXAMPLE 3:**

```
python > ● stringslice.py > ...
  9    #slice start with 0 and end with 5
 10    # but print 0 t0 4 because in slice not include end indentifier
 11    #print(str[0:5])
 12    str ="aliasaeed"
 13    # end with 4
 14    print(str[4:])
 15
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   **TERMINAL**

```
PS D:\sofware h> python -u "d:\sofware h\python\stringslice.py"
saeed
PS D:\sofware 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    #srting find
 12    print(str.find("in"))
 13
 14    #srting replacewith
 15    print(str.replace("iplex","G5"))
 16
 17    #srting endswith
 18    print(str.endswith("islamabad"))
 19
 20    #srting lowercase
 21    print(str.lower())
 22
 23    #srting uppercase
 24    print(str.upper())
```

Output:

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL

PS D:\sofware h> python -u "d:\sofware 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:\sofware 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
python > 🐍 escap.py > ...
     1    #escape sequence character
     2    #new line
     3    name = str(input("univarsity 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:\sofware h> python -u "d:\sofware h\python\escap.py"
univarsity name
isamia univarsity bahawalpur
isamia univarsity bahawalpur

name            ALIA SAEED
ALIA SAEED
'name 'SAIRA SAEED
SAIRA SAEED
PS D:\sofware h> []
```