

STRING HANDLING MANAGEMENT

How to achieve documentation using string?

```
def sampleFunc():  
    """this can be used for writing some notes"""  
    # further codes goes here  
  
class MyClass:  
    """This is a class that does something."""  
    # class definition goes here
```

if you want to get that documentations inside that function, you could use `__doc__`.

```
example: Print(sampleFunc.__doc__)  
           print(MyClass.__doc__)
```

ASSIGNING VALUES TO VARIABLES

There are two types of value assignment is available in python,

1. Multi value assignment (ex: name,city='rajesh','dindigul')
2. Multiple value assignment(ex: a=b=c=10)

STRING FORMATTING

- NORMAL FORMATTING
- AUTOMATED FORMATTING
- MANUAL FORMATTING

Normal Formatting

```
Python 3.11.3 (tags/v3.11.3:f3909b8, Apr  4 2023, 23:49:59) [MSC v.1934 64 bit (AMD64)]  
Type "help", "copyright", "credits" or "license()" for more information.  
name = "ram"  
email = "ram@gmail.com"  
city = "chennai"  
print("my name is"+name+"and email id is"+email+"city is"+city)  
my name isramand email id isram@gmail.comcity ischennai  
print("my name is" + " " + name + " " + "and email id is" + " " + email + " " + "city is" + " " + city)  
my name is ram and email id is ram@gmail.com city is chennai
```

```
print("my name is ",name," and email id is ",email," city is ",city)
my name is  ram  and email id is  ram@gmail.com  city is  chennai
|
```

Automated Formatting

```
name = "ram"
email = "ram@gmail.com"
city = "chennai"
print("my name is {} and my email id is {} and living in {}".format(name, email, city))
my name is ram and my email id is ram@gmail.com and living in  chennai
print("my name is %s and my email id is %s and living in %s" % (name, email, city))
my name is ram and my email id is ram@gmail.com and living in  chennai
|
```

Manual Formatting

```
name = "Alice"
email = "alice@gmail.com"
city = "chennai"
print("My name is {0} and email id is {1} and living in {2}".format(name, email, city))
My name is Alice and email id is alice@gmail.com and living in chennai
print("My name is {1} and email id is {2} and living in {0}".format(name, email, city))
My name is alice@gmail.com and email id is chennai and living in Alice
|
```

String Concatenation & Repetition

```
name = "Alice"
country = "Russia"
#String concatenation
print(name+country)
AliceRussia
print(name+" "+country)
Alice Russia
print("my name is"+" "+name+" ,"+"living in"+" "+country)
my name is Alice ,living in Russia
#String repetition
print(name*4)
AliceAliceAliceAlice
|
```

String Indexing

```
>>> #String indexing
>>> sampleStr = "Softlogic"
>>> print(sampleStr[0])
S
>>> print(sampleStr[1])
o
>>> print(sampleStr[2])
f
```

```

>>> print(sampleStr[4])
1
>>> #find length of string
>>> print(len(sampleStr))
9
>>> print(sampleStr[10])
Traceback (most recent call last):
  File "<pysHELL#8>", line 1, in <module>
    print(sampleStr[10])
IndexError: string index out of range
>>>
>>>
>>> #reverse indexing
>>> print(sampleStr[-1])
c
>>> print(sampleStr[-4])
o
>>> print(sampleStr[-5])
l
>>> print(sampleStr[-10])
Traceback (most recent call last):
  File "<pysHELL#15>", line 1, in <module>
    print(sampleStr[-10])
IndexError: string index out of range
>>>

```

String Slicing

```

#String Slicing

sample = "softlogic"

print(sample[0:1])
s
print(sample[0:2])
so
print(sample[0:3])
sof
print(sample[0:5])
softl

#negative slicing

print(sample[-5:-1])
logi
print(sample[-4:-1])
ogi
print(sample[-3:-1])
gi
print(sample[-2:-1])
i
print(sample[-2:-1])

```

String Ranging

```

>>>
>>> #string Ranging
>>>
>>> sample = "softlogic"
>>>
>>> print(sample[0:])
softlogic

```

```

softlogic
>>> print(sample[1:])
oftlogic
>>> print(sample[2:])
ftlogic
>>> # reverse ranging
>>>
>>> print(sample[:5])
softl
>>> print(sample[:6])
softlo
>>> print(sample[:7])
softlog
>>> print(sample[:3])
sof
>>> print(sample[:2])
so
>>>
>>> #negative ranging
>>>
>>> print(sample[-4:])
ogic
>>> print(sample[-3:])
gic
>>> print(sample[-2:])
ic
>>> print(sample[:-4])
softl
>>> print(sample[:-3])
softlo
>>> print(sample[:-2])
softlog
>>> print(sample[:-1])
softlogi
>>>

```

String Built-in Functions

```

'''
>>> # String in-built functions
>>>
>>> name = "softlogic"
>>>
>>> name.capitalize()
'Softlogic'
>>> name.casefold()
'softlogic'
>>> name.count('t')
1
>>> name.endswith('c')
True
>>> name.find('g')
6
>>> name.index('f')
2
>>> name.isalnum()
True
>>> name.isalpha()
True
>>> name.isdecimal()
False
>>> name.isdigit()
False
>>> name.isidentifier()
True
>>> name.islower()
True
>>> name.isnumeric()
False
>>> name.isprintable()
True
>>> name.isspace()
False
>>> name.istitle()
False
>>> name.isupper()
False
>>> name.join('123')
'1softlogic2softlogic3'
>>> name.lower()
'softlogic'
'''

```

```
>>> name.upper()  
'SOFTLOGIC'
```

```
>>> name.partition('l')  
('soft', 'l', 'ogic')  
>>> name.replace('l', 'L')  
'softLogic'  
>>> name.lstrip('s')  
'oftlogic'  
>>> name.rstrip('c')  
'softlogi'  
>>> name.split("o")  
['s', 'ftl', 'gic']  
>>> name.swapcase()  
'SOFTLOGIC'
```