Manipulating strings

In [4]:
```
print("Hello there!\nHow are you?\nI'm doing fine.")
```

```
Hello there!
How are you?
I'm doing fine.
```

In [20]:
```
print('Hello python\nHow are you going?\nIt\'s fine for you.')
```

```
Hello python
How are you going?
It's fine for you.
```

In [22]:
```
print(r"Hello there!\nHow are you?\nI\'m doing fine.")
```

```
Hello there!\nHow are you?\nI\'m doing fine.
```

Multiline strings

In [25]:
```
print(
"""Dear Alice,

Eve's cat has been arrested for catnapping
cat burglary, and extortion.

Sincerely,
Bob"""
)
```

```
Dear Alice,

Eve's cat has been arrested for catnapping
cat burglary, and extortion.

Sincerely,
Bob
```

indexing

In [28]:
```
spam = 'Hello wrold'
```

In [30]:
```
spam[0]
```

Out[30]:
```
'H'
```

In [32]:
```
spam[4]
```

Out[32]:
```
'o'
```

In [34]:
```
spam[-1]
```

Out[34]: 'd'

slicing

In [37]:
```
spam = 'Hello world'
```

In [39]:
```
spam[0:5]
```

Out[39]: 'Hello'

In [41]:
```
spam[:5]
```

Out[41]: 'Hello'

In [45]:
```
= {''}
```

```
  Cell In[45], line 1
    = {''}
    ^
SyntaxError: invalid syntax
```

In [47]:
```
spam[-1]
```

Out[47]: 'd'

In [55]:
```
spam[::-1]
```

Out[55]: 'dlrow olleH'

In [57]:
```
spam[::-3]
```

Out[57]: 'dooe'

In [59]:
```
fizz = spam [0:5]
fizz
```

Out[59]: 'Hello'

The in and not in operators

In [64]:
```
'Hello' in 'Hello World'
```

Out[64]: True

In [66]:
```
'Hello' in 'Hello Wrold'
```

Out[66]: True

In [70]:
```
"Hello" in "Hello"
```

Out[70]: True

In [82]:
```
"HELLO" in 'Hello World'
```

Out[82]: False

In [78]:
```
'' in 'spam'
```

Out[78]: True

In [80]:
```
'cats' not in 'cats and dogs'
```

Out[80]: False

upper(),lower(),and title()

In [85]:
```
greet = 'Hello world'
```

In [87]:
```
greet
```

Out[87]: 'Hello world'

In [89]:
```
greet.upper()
```

Out[89]: 'HELLO WORLD'

In [91]:
```
greet.lower()
```

Out[91]: 'hello world'

In [93]:
```
greet.capitalize()
```

Out[93]: 'Hello world'

In [95]:
```
greet.title()
```

Out[95]: 'Hello World'

isupper(),islower(),methods

In [102…
```
spam = 'Hello world!'
spam.islower()
```

Out[102… False

In [108…
```
spam.isupper()
```

Out[108… False

In [116…
```
spam.capitalize()
```

Out[116… 'Hello world!'

In [118…
```
'abc1234'.islower()
```
Out[118…
```
True
```

In [122…
```
'1234'.islower()
```
Out[122…
```
False
```

starts with () and endswith()

In [128…
```
'Hello world!'.startswith('Hello')
```
Out[128…
```
True
```

In [130…
```
'hello world'.endswith('world')
```
Out[130…
```
True
```

In [134…
```
'abc123'.startswith('abcef')
```
Out[134…
```
False
```

In [136…
```
'abc123'.endswith('123')
```
Out[136…
```
True
```

In [142…
```
'Hello world'.startswith("Hello world") # endswith also
```
Out[142…
```
True
```

join() and split()

join()

In [147…
```
>>> ''.join(['My','name','is','Simon'])
```
Out[147…
```
'MynameisSimon'
```

In [151…
```
>>> ', '.join(['cats','rats','hats','bats'])
```
Out[151…
```
'cats, rats, hats, bats'
```

In [153…
```
>>> ' '.join(['My','name','is','Simon'])
```
Out[153…
```
'My name is Simon'
```

In [169…
```
>>> 'ABC '.join(['My','name','is','Simon'])
```
Out[169…
```
'MyABC nameABC isABC Simon'
```

split()

In [174…
```
'My Name Is Simon'.split()
```
Out[174…
```
['My', 'Name', 'Is', 'Simon']
```
In [176…
```
'Myabcname abcis abcSimon'.split('abc')
```
Out[176…
```
['My', 'name ', 'is ', 'Simon']
```
In [180…
```
'My Name Is Simon'.split('m')
```
Out[180…
```
['My Na', 'e Is Si', 'on']
```
In [194…
```
'My Name Is Simon'.split(' ')
```
Out[194…
```
['My', 'Name', 'Is', 'Simon']
```

Justifying text with rjust(),ljust() and Center()

In [197…
```
'Hello'.rjust(10)
```
Out[197…
```
'     Hello'
```
In [203…
```
'Hello'.rjust(20)
```
Out[203…
```
'               Hello'
```
In [215…
```
"hello world".rjust(40)
```
Out[215…
```
'                            hello world'
```
In [213…
```
'Hello'.ljust(40)
```
Out[213…
```
'Hello                                   '
```
In [219…
```
'Hello'.center(20)
```
Out[219…
```
'       Hello        '
```
In [221…
```
'Hello'.rjust(40,'*')
```
Out[221…
```
'**********************************Hello'
```
In [229…
```
'Hello'.ljust(40,'-')
```
Out[229…
```
'Hello-----------------------------------'
```
In [231…
```
'Hello'.center(20,'=')
```

Out[231… '=======Hello========'

Removing withespace with strip(),rstrip(),and istrip()

In [236…
```
spam = '     Hello world      '
spam.strip()
```

Out[236… 'Hello world'

In [238…
```
spam.lstrip()
```

Out[238… 'Hello world   '

In [240…
```
spam.rstrip()
```

Out[240… '   Hello world'

In [293…
```
spam = 'spamspambaconspameggsspamspam'
spam.strip('spam')
```

Out[293… 'baconspamegg'

In [246…
```
sentence = 'one sheep two sheep three sheep four'
sentence.count('sheep')
```

Out[246… 3

In [248…
```
sentence.count('e')
```

Out[248… 9

In [250…
```
sentence.count('o')
```

Out[250… 3

In [264…
```
sentence.count('e',6)
```

Out[264… 8

In [266…
```
sentence.count('e',8)
```

Out[266… 6

Replace Method

In [279…
```
text = "Hello World!"
text.replace("World","planet")
```

Out[279… 'Hello planet!'

In [285…
```
fruits = "apple','banana', 'cherry','apple"
fruits.replace('apple','oranges',1)
```

Out[285…
```
"oranges','banana', 'cherry','apple"
```

In [289…
```
sentences = " I like apples, Apples are my favourite fruits"
sentences.replace('apples','Kiwi')
```

Out[289…
```
' I like Kiwi, Apples are my favourite fruits'
```

python print

In [296…
```
a = 10
b = 20
a
b
```

Out[296…
```
20
```

In [298…
```
a = 10
b = 30
print(a)
print(b)
```

```
10
30
```

In [300…
```
print(10)
print(20)
print('python')
print(10,20,'pythpon')
```

```
10
20
python
10 20 pythpon
```

In [304…
```
num1 = 20
num2 = 30
num3 = num1 + num2
print(num3)
```

```
50
```

print result with string

In [313…
```
num1 = 20
num2 = 30
add = num1 + num2
print('The Additon of',num1, 'and' , num2 , 'is=',add)
```

```
The Additon of 20 and 30 is= 50
```

In [315…
```
name =' python'
age = 30
city = 'hyd'
```

In [319…
```
print('My name is',name, 'and my age is',age,'I am living in',city)
```

```
My name is  python and my age is 30 I am living in hyd
```

In [333…
```
num1 = 20
num2 = 30
add = num1 + num2
print('The addition of {} and {}is= {}'.format(num1,num2,add))
```

```
The addition of 20 and 30is= 50
```

In [339…
```
name =' python'
age = 30
city = 'hyd'
print('The addtion of {} and {} is {}'.format(name,age,city))
```

```
The addtion of  python and 30 is hyd
```

In [341…
```
name =' python'
age = 30
city = 'hyd'
print('"hello my name is{} and i am {} years old and i am living in {}'.format(n
```

```
"hello my name is python and i am 30 years old and i am living in hyd
```

In [345…
```
num1 = 100
num2 = 25
num3 = 333
avg=(num1+num2+num3)/3
avg
```

Out[345…
```
152.66666666666666
```

In [353…
```
num1 = 100
num2 = 25
num3 = 333
avg=(num1+num2+num3)/3
avg1= round((num1+num2+num3)/3,4)
avg1
```

Out[353…
```
152.6667
```

In [367…
```
print('The average of {},{} and {} is {} or {}'.format(num1,num2,num3,avg,avg1))
```

```
The average of 100,25 and 333 is 152.66666666666666 or 152.6667
```

In [385…
```
num1 = 100
num2 = 25
num3 = 333
avg=(num1+num2+num3)/3
avg
print(f'The average of {num1},{num2} and {num3} is {avg} or {avg1}.')
```

```
The average of 100,25 and 333 is 152.66666666666666 or 152.6667.
```

In [393…
```
name =' python'
age = 30
city = 'hyd'
print(f'Hello my name is{name}, and i am {age} years of old and i am from {city}
```

```
Hello my name is python, and i am 30 years of old and i am from hyd
```

In [409…
```
name =' python'
age = 30
city = 'hyd'
print(f'Hello my name is{name}, and i am {age} years of old and i am from {city}
print("hello my name is",name,"i am",age, "year old and i am from",city)
print('Hello my name is {} and i am {} years of old and i am from {}'.format(nam
```

```
Hello my name is python, and i am 30 years of old and i am from hyd
hello my name is  python i am 30 year old and i am from hyd
Hello my name is  python and i am 30 years of old and i am from hyd
```

end STATEMENT

In [412…
```
print('Hello')
print('world')
```

```
Hello
world
```

In [416…
```
print('Hello', end=' ')
print('world')
```

```
Hello world
```

Seprator

In [419…
```
print('hello','my','name','is','Aron', sep='*****')
```

```
hello*****my*****name*****is*****Aron
```

In [425…
```
print('Aron','gmail','how are you',sep='@ ')
```

```
Aron@ gmail@ how are you
```

In [431…
```
print('Hello' , 'hey', 'How are you?', sep=(' '))
```

```
Hello hey How are you?
```

In [437…
```
print(1,'.')
```

```
1 .
```

In [439…
```
print(1,'.',sep='')
```

```
1.
```

In [441…
```
print(1,2,end=' ')
print(3,'.',sep='')
```

```
1 2 3.
```

In [445…
```
print("hellow World",2024,end='')
print("how are you?.")
```

```
hellow World 2024how are you?.
```

In [ ]:
```

```