List and its default functions

```
In [1]:
list1 = ['physics', 'chemistry', 1997, 2000];
In [2]:
list2 = [1, 2, 3, 4, 5];
In [3]:
list3 = ["a", "b", "c", "d"]
In [9]:
print(list1[0])
physics
In [11]:
print(list2[2])
3
In [13]:
print(list1)
['physics', 'chemistry', 1997, 2000]
In [14]:
del list1[2];
In [15]:
print(list1)
['physics', 'chemistry', 2000]
In [16]:
['Hi!'] * 4
Out[16]:
['Hi!', 'Hi!', 'Hi!', 'Hi!']
```

localhost:8888/lab

```
In [17]:
len([1, 2, 3])
Out[17]:
3
In [18]:
[1, 2, 3] + [4, 5, 6]
Out[18]:
[1, 2, 3, 4, 5, 6]
In [19]:
3 in [1, 2, 3]
Out[19]:
True
In [21]:
L = ['spam', 'Spam', 'SPAM!']
In [22]:
L[2]
Out[22]:
'SPAM!'
In [23]:
L[-2]
Out[23]:
'Spam'
In [24]:
L[1:]
Out[24]:
['Spam', 'SPAM!']
In [35]:
list1, list2 = [123, 'xyz', 'zara'], [456, 'abc']
```

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```
In [37]:
print("First list length : ", len(list1))
First list length: 3
In [39]:
print("Second list length : ", len(list2))
Second list length : 2
In [51]:
list1, list2 = ['xyz', 'zara', 'abc'], [456, 123]
In [48]:
max(list1)
Out[48]:
'zara'
In [52]:
max(list2)
Out[52]:
456
In [53]:
min(list1)
Out[53]:
'abc'
In [54]:
min(list2)
Out[54]:
123
In [55]:
aTuple = (123, 'xyz', 'zara', 'abc');
In [56]:
aList = list(aTuple)
```

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```
In [57]:
aList
Out[57]:
[123, 'xyz', 'zara', 'abc']
In [58]:
aList = [123, 'xyz', 'zara', 'abc'];
In [59]:
aList.append( 2009 );
In [60]:
aList
Out[60]:
[123, 'xyz', 'zara', 'abc', 2009]
In [61]:
aList = [123, 'xyz', 'zara', 'abc', 123];
In [62]:
aList.count(123)
Out[62]:
2
In [63]:
aList.count('zara')
Out[63]:
1
In [1]:
aList = [123, 'xyz', 'zara', 'abc', 123];
In [2]:
bList = [2009, 'manni'];
In [3]:
aList.extend(bList)
```

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```
In [4]:
aList
Out[4]:
[123, 'xyz', 'zara', 'abc', 123, 2009, 'manni']
In [5]:
aList = [123, 'xyz', 'zara', 'abc'];
In [6]:
aList.index( 'xyz' )
Out[6]:
1
In [7]:
aList.index( 'zara' )
Out[7]:
2
In [8]:
aList = [123, 'xyz', 'zara', 'abc']
In [9]:
aList.insert(3, 2009)
In [10]:
aList
Out[10]:
[123, 'xyz', 'zara', 2009, 'abc']
In [11]:
aList = [123, 'xyz', 'zara', 'abc'];
In [12]:
aList.pop()
Out[12]:
'abc'
```

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```
In [13]:
aList.pop(2)
Out[13]:
'zara'
In [14]:
aList = [123, 'xyz', 'zara', 'abc', 'xyz'];
In [15]:
aList.remove('xyz');
In [16]:
aList
Out[16]:
[123, 'zara', 'abc', 'xyz']
In [17]:
aList.remove('abc');
In [18]:
aList
Out[18]:
[123, 'zara', 'xyz']
In [19]:
aList = [123, 'xyz', 'zara', 'abc', 'xyz'];
In [20]:
aList.reverse();
In [21]:
aList
Out[21]:
['xyz', 'abc', 'zara', 'xyz', 123]
In [25]:
aList = ['xyz', 'zara', 'abc', 'xyz'];
```

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```
In [23]:
aList
Out[23]:
[123, 'xyz', 'zara', 'abc', 'xyz']
In [26]:
aList.sort();
In [27]:
aList
Out[27]:
['abc', 'xyz', 'xyz', 'zara']
```

Dictionary and its default functions

```
In [29]:
dict = {'Name': 'Zara', 'Age': 7, 'Class': 'First'}
In [30]:
dict['Name']
Out[30]:
'Zara'
In [31]:
dict['Age']
Out[31]:
7
In [32]:
dict = {'Name': 'Zara', 'Age': 7, 'Class': 'First'}
In [36]:
dict['Age'] = 8;
In [37]:
dict['School'] = "DPS School";
```

localhost:8888/lab 7/37

```
In [38]:
dict['Age']
Out[38]:
8
In [39]:
dict['School']
Out[39]:
'DPS School'
In [40]:
dict = {'Name': 'Zara', 'Age': 7, 'Class': 'First'}
In [41]:
del dict['Name'];
In [42]:
dict.clear();
In [43]:
del dict ;
In [47]:
dict
Out[47]:
dict
In [48]:
dict = {'Name': 'Zara', 'Age': 7, 'Name': 'Manni'}
In [49]:
dict['Name']
Out[49]:
'Manni'
In [52]:
dict1 = {'Name': 'Zara', 'Age': 7};
```

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```
In [54]:
len (dict)
Out[54]:
2
In [55]:
str (dict1)
Out[55]:
"{'Name': 'Zara', 'Age': 7}"
In [58]:
dict = {'Name': 'Zara', 'Age': 7};
In [59]:
type (dict)
Out[59]:
dict
In [60]:
dict = {'Name': 'Zara', 'Age': 7};
In [61]:
len(dict)
Out[61]:
2
In [62]:
dict.clear()
In [63]:
len(dict)
Out[63]:
0
In [64]:
dict1 = {'Name': 'Zara', 'Age': 7};
```

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```
In [66]:
dict2 = dict1.copy()
In [67]:
str(dict2)
Out[67]:
"{'Name': 'Zara', 'Age': 7}"
In [68]:
seq = ('name', 'age', 'sex')
In [69]:
dict = dict.fromkeys(seq)
In [70]:
str(dict)
Out[70]:
"{'name': None, 'age': None, 'sex': None}"
In [71]:
dict = dict.fromkeys(seq, 10)
In [72]:
str(dict)
Out[72]:
"{'name': 10, 'age': 10, 'sex': 10}"
In [74]:
dict = {'Name': 'Zabra', 'Age': 7}
In [75]:
dict.get('Age')
Out[75]:
7
```

localhost:8888/lab

```
In [76]:
dict.get('Education', "Never")
Out[76]:
'Never'
In [83]:
dict = {'Name': 'Zara', 'Age': 7}
In [86]:
dict.items()
Out[86]:
dict_items([('Name', 'Zara'), ('Age', 7)])
In [87]:
dict = {'Name': 'Zara', 'Age': 7}
In [88]:
dict.keys()
Out[88]:
dict_keys(['Name', 'Age'])
In [89]:
dict = {'Name': 'Zara', 'Age': 7}
In [90]:
dict.setdefault('Age', None)
Out[90]:
7
In [92]:
dict.setdefault('Sex', None)
In [93]:
dict = {'Name': 'Zara', 'Age': 7}
In [94]:
dict2 = {'Sex': 'female' }
```

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```
In [95]:
dict.update(dict2)

In [96]:
dict
Out[96]:
{'Name': 'Zara', 'Age': 7, 'Sex': 'female'}

In [97]:
dict = {'Name': 'Zara', 'Age': 7}

In [98]:
dict.values()
Out[98]:
dict_values(['Zara', 7])
```

sets and its default functions

```
In [100]:

my_set = {1, 2, 3}

In [101]:

print(my_set)

{1, 2, 3}

In [102]:

my_set = {1.0, "Hello", (1, 2, 3)}

In [103]:

print(my_set)

{1.0, (1, 2, 3), 'Hello'}

In [104]:

my_set = set([1, 2, 3, 2])
```

localhost:8888/lab 12/37

```
In [105]:
print(my_set)
{1, 2, 3}
In [107]:
my_set = \{1, 2, 3, 4, 3, 2\}
In [108]:
print(my_set)
{1, 2, 3, 4}
In [109]:
Days=set(["Mon","Tue","Wed","Thu","Fri","Sat","Sun"])
In [110]:
Months={"Jan","Feb","Mar"}
In [111]:
Dates={21,22,17}
In [112]:
print(Days)
{'Mon', 'Thu', 'Sat', 'Sun', 'Wed', 'Tue', 'Fri'}
In [113]:
print(Months)
{'Jan', 'Mar', 'Feb'}
In [114]:
print(Dates)
{17, 21, 22}
In [115]:
Days=set(["Mon","Tue","Wed","Thu","Fri","Sat","Sun"])
In [118]:
print(Days)
{'Mon', 'Thu', 'Sat', 'Sun', 'Wed', 'Tue', 'Fri'}
```

localhost:8888/lab 13/37

```
In [119]:
Days=set(["Mon","Tue","Wed","Thu","Fri","Sat"])
In [120]:
Days.add("Sun")
In [121]:
print(Days)
{'Mon', 'Thu', 'Sat', 'Sun', 'Wed', 'Tue', 'Fri'}
In [122]:
Days=set(["Mon","Tue","Wed","Thu","Fri","Sat"])
In [123]:
Days.discard("Sun")
In [124]:
print(Days)
{'Mon', 'Thu', 'Sat', 'Wed', 'Tue', 'Fri'}
In [125]:
DaysA = set(["Mon","Tue","Wed"])
In [128]:
DaysB = set(["Wed","Thu","Fri","Sat","Sun"])
In [130]:
AllDays = DaysA|DaysB
In [131]:
print(AllDays)
{'Mon', 'Thu', 'Sat', 'Sun', 'Wed', 'Tue', 'Fri'}
In [132]:
DaysA = set(["Mon","Tue","Wed"])
In [133]:
DaysB = set(["Wed","Thu","Fri","Sat","Sun"])
```

localhost:8888/lab 14/37

True

```
In [134]:
AllDays = DaysA & DaysB
In [136]:
print(AllDays)
{'Wed'}
In [137]:
DaysA = set(["Mon","Tue","Wed"])
In [138]:
DaysB = set(["Wed","Thu","Fri","Sat","Sun"])
In [139]:
AllDays = DaysA - DaysB
In [140]:
print(AllDays)
{'Mon', 'Tue'}
In [141]:
DaysA = set(["Mon","Tue","Wed"])
In [142]:
DaysB = set(["Mon","Tue","Wed","Thu","Fri","Sat","Sun"])
In [143]:
SubsetRes = DaysA <= DaysB
In [144]:
SupersetRes = DaysB >= DaysA
In [145]:
print(SubsetRes)
True
In [146]:
print(SupersetRes)
```

localhost:8888/lab 15/37

```
In [147]:
my_set = {1, 3, 4, 5, 6}

In [148]:
my_set.discard(4)

In [149]:
print(my_set)
{1, 3, 5, 6}
```

Tuple and explore default methods

```
In [150]:
tup1 = ('physics', 'chemistry', 1997, 2000);
In [151]:
tup2 = (1, 2, 3, 4, 5);
In [152]:
tup3 = "a", "b", "c", "d";
In [153]:
tup1 = ();
In [154]:
tup1 = (50,);
In [157]:
print(tup1[0]);
50
In [158]:
print(tup2[1:5]);
(2, 3, 4, 5)
In [159]:
tup1 = (12, 34.56);
```

localhost:8888/lab 16/37

```
In [160]:
tup2 = ('abc', 'xyz');
In [162]:
tup3 = tup1 + tup2;
In [164]:
print(tup3);
(12, 34.56, 'abc', 'xyz')
In [165]:
tup = ('physics', 'chemistry', 1997, 2000);
In [167]:
print(tup);
('physics', 'chemistry', 1997, 2000)
In [168]:
del tup;
In [174]:
tup = ('physics', 'chemistry', 1997, 2000);
In [176]:
len((1, 2, 3))
Out[176]:
3
In [177]:
(1, 2, 3) + (4, 5, 6)
Out[177]:
(1, 2, 3, 4, 5, 6)
In [178]:
3 in (1, 2, 3)
Out[178]:
True
```

localhost:8888/lab 17/37

```
In [182]:
('Hi!',) * 4
Out[182]:
('Hi!', 'Hi!', 'Hi!', 'Hi!')
In [183]:
L = ('spam', 'Spam', 'SPAM!')
In [184]:
L[2]
Out[184]:
'SPAM!'
In [185]:
L[-2]
Out[185]:
'Spam'
In [186]:
L[1:]
Out[186]:
('Spam', 'SPAM!')
In [188]:
print('abc', -4.24e93, 18+6.6j, 'xyz');
abc -4.24e+93 (18+6.6j) xyz
In [189]:
x, y = 1, 2;
In [190]:
print(x,y)
1 2
In [195]:
tuple1, tuple2 = (123, 'xyz', 'zara'), (456, 'abc')
```

localhost:8888/lab 18/37

```
In [196]:
len(tuple1)
Out[196]:
3
In [197]:
len(tuple2)
Out[197]:
2
In [201]:
tuple1, tuple2 = ('xyz', 'zara', 'abc'), (456, 700, 200)
In [202]:
max(tuple1)
Out[202]:
'zara'
In [203]:
max(tuple2)
Out[203]:
700
In [204]:
min(tuple1)
Out[204]:
'abc'
In [205]:
min(tuple2)
Out[205]:
200
In [206]:
aList = [123, 'xyz', 'zara', 'abc']
```

localhost:8888/lab 19/37

```
In [207]:
aTuple = tuple(aList)

In [208]:
print(aTuple)
(123, 'xyz', 'zara', 'abc')
```

Strings and explore default methods

```
In [209]:
var1 = 'Hello World!'
In [210]:
var2 = "Python Programming"
In [211]:
print(var1[0])
Н
In [212]:
 print(var2[1:5])
ytho
In [213]:
var1 = 'Hello World!'
In [214]:
print(var1[:6] + 'Python')
Hello Python
In [215]:
print("My name is %s and weight is %d kg!" % ('Zara', 21))
My name is Zara and weight is 21 kg!
```

localhost:8888/lab 20/37

```
In [216]:
```

```
para_str = """this is a long string that is made up of
several lines and non-printable characters such as
TAB ( \t ) and they will show up that way when displayed.
NEWLINEs within the string, whether explicitly given like
this within the brackets [ \n ], or just a NEWLINE within
the variable assignment will also show up.
"""
```

```
In [218]:
print(para_str)
this is a long string that is made up of
several lines and non-printable characters such as
         ) and they will show up that way when displayed.
NEWLINEs within the string, whether explicitly given like
this within the brackets [
 ], or just a NEWLINE within
the variable assignment will also show up.
In [219]:
print('C:\\nowhere')
C:\nowhere
In [222]:
print(r'C:\\nowhere')
C:\\nowhere
In [223]:
print(u'Hello, world!')
Hello, world!
In [224]:
str = "this is string example....wow!!!";
In [225]:
print("str.capitalize() : ", str.capitalize())
str.capitalize() : This is string example....wow!!!
In [226]:
str = "this is string example....wow!!!"
```

localhost:8888/lab 21/37

```
In [227]:
print("str.center(40, 'a') : ", str.center(40, 'a'))
str.center(40, 'a') : aaaathis is string example....wow!!!aaaa
In [228]:
str = "this is string example....wow!!!";
In [229]:
sub = "i";
In [230]:
print("str.count(sub, 4, 40) : ", str.count(sub, 4, 40))
str.count(sub, 4, 40) : 2
In [231]:
sub = "wow";
In [233]:
print("str.count(sub) : ", str.count(sub))
str.count(sub) : 1
In [246]:
str = "this is string example....wow!!!";
In [247]:
suffix = "wow!!!";
In [248]:
str.endswith(suffix)
Out[248]:
True
In [249]:
str.endswith(suffix,20)
Out[249]:
True
```

localhost:8888/lab 22/37

```
In [250]:
suffix = "is";
In [251]:
str.endswith(suffix, 2, 4)
Out[251]:
True
In [252]:
str.endswith(suffix, 2, 6)
Out[252]:
False
In [253]:
str = "this is\tstring example....wow!!!";
In [254]:
str
Out[254]:
'this is\tstring example....wow!!!'
In [255]:
str.expandtabs()
Out[255]:
'this is string example....wow!!!'
In [256]:
str.expandtabs(16)
Out[256]:
'this is
                 string example....wow!!!'
In [257]:
str1 = "this is string example....wow!!!";
In [258]:
str2 = "exam";
```

localhost:8888/lab 23/37

```
In [259]:
str1.find(str2)
Out[259]:
15
In [260]:
str1.find(str2, 10)
Out[260]:
15
In [261]:
str1.find(str2, 40)
Out[261]:
-1
In [262]:
str1.index(str2)
Out[262]:
15
In [263]:
str1.index(str2, 10)
Out[263]:
15
In [264]:
str = "this2009";
In [265]:
str.isalnum()
Out[265]:
True
In [266]:
str = "this is string example....wow!!!";
```

localhost:8888/lab 24/37

```
In [267]:
str.isalnum()
Out[267]:
False
In [268]:
str = "this";
In [269]:
str.isalpha()
Out[269]:
True
In [270]:
str = "this is string example....wow!!!";
In [272]:
str.isalpha()
Out[272]:
False
In [273]:
str = "123456";
In [274]:
str.isdigit()
Out[274]:
True
In [275]:
str = "this is string example....wow!!!";
In [276]:
str.isdigit()
Out[276]:
False
```

localhost:8888/lab 25/37

```
In [277]:
str.islower()
Out[277]:
True
In [278]:
str = "THIS is string example....wow!!!";
In [279]:
str.islower()
Out[279]:
False
In [280]:
str = u"this2009";
In [281]:
str = u"23443434";
In [282]:
str.isnumeric()
Out[282]:
True
In [283]:
str = u"this2009";
In [284]:
str.isnumeric()
Out[284]:
False
In [285]:
str = "
```

localhost:8888/lab 26/37

```
In [286]:
str.isspace()
Out[286]:
True
In [287]:
str = "This is string example....wow!!!";
In [288]:
str.isspace()
Out[288]:
False
In [289]:
str = "This Is String Example...Wow!!!";
In [290]:
str.istitle()
Out[290]:
True
In [291]:
str = "This is string example....wow!!!";
In [292]:
str.istitle()
Out[292]:
False
In [293]:
str = "THIS IS STRING EXAMPLE....WOW!!!";
In [294]:
str.isupper()
Out[294]:
True
```

localhost:8888/lab 27/37

```
In [295]:
str = "THIS is string example....wow!!!";
In [296]:
str.isupper()
Out[296]:
False
In [297]:
s = "-";
In [298]:
seq = ("a", "b", "c");
In [299]:
s.join( seq )
Out[299]:
'a-b-c'
In [300]:
str = "this is string example....wow!!!";
In [301]:
len(str)
Out[301]:
32
In [302]:
str.ljust(50, '0')
Out[302]:
'this is string example....wow!!!0000000000000000000000
In [303]:
str = "THIS IS STRING EXAMPLE....WOW!!!";
```

localhost:8888/lab 28/37

```
In [304]:
str.lower()
Out[304]:
'this is string example....wow!!!'
In [305]:
str = "
            this is string example....wow!!!
In [306]:
str.lstrip()
Out[306]:
'this is string example....wow!!!
In [307]:
str = "88888888this is string example....wow!!!8888888";
In [308]:
str.lstrip()
Out[308]:
'8888888this is string example....wow!!!8888888'
In [309]:
str.lstrip('8')
Out[309]:
'this is string example....wow!!!8888888'
In [317]:
str = "this is really a string example....wow!!!";
In [318]:
max(str)
Out[318]:
'у'
In [320]:
str = "this is a string example....wow!!!";
```

localhost:8888/lab 29/37

```
In [321]:
max(str)
Out[321]:
'x'
In [322]:
min(str)
Out[322]:
. .
In [323]:
min(str)
Out[323]:
. .
In [324]:
str = "this-is-a-string-example....wow!!!";
In [325]:
min(str)
Out[325]:
'!'
In [326]:
str = "this is string example....wow!!! this is really string"
In [327]:
str.replace("is", "was")
Out[327]:
'thwas was string example....wow!!! thwas was really string'
In [328]:
str.replace("is", "was", 3)
Out[328]:
'thwas was string example....wow!!! thwas is really string'
```

localhost:8888/lab 30/37

```
In [329]:
str1 = "this is really a string example....wow!!!";
In [330]:
str2 = "is";
In [331]:
str1.rfind(str2)
Out[331]:
5
In [332]:
str1.rfind(str2, 0, 10)
Out[332]:
5
In [333]:
str1.rfind(str2, 10, 0)
Out[333]:
-1
In [334]:
str1.find(str2)
Out[334]:
2
In [335]:
str1.find(str2, 0, 10)
Out[335]:
2
In [336]:
str1.find(str2, 10, 0)
Out[336]:
-1
```

localhost:8888/lab 31/37

```
In [337]:
str1 = "this is string example....wow!!!";
In [338]:
str2 = "is";
In [339]:
str1.rindex(str2)
Out[339]:
5
In [340]:
str1.index(str2)
Out[340]:
2
In [341]:
str = "this is string example....wow!!!";
In [342]:
str.rjust(50, '0')
Out[342]:
'000000000000000000this is string example....wow!!!'
In [343]:
str = " this is string example....wow!!!
In [344]:
str.rstrip()
Out[344]:
     this is string example....wow!!!'
In [345]:
str = "88888888this is string example....wow!!!8888888";
```

localhost:8888/lab 32/37

```
In [346]:
str.rstrip('8')
Out[346]:
'8888888this is string example....wow!!!'
In [347]:
str = "Line1-abcdef \nLine2-abc \nLine4-abcd";
In [348]:
str.split( )
Out[348]:
['Line1-abcdef', 'Line2-abc', 'Line4-abcd']
In [349]:
str.split(' ', 1 )
Out[349]:
['Line1-abcdef', '\nLine2-abc \nLine4-abcd']
In [350]:
str = "Line1-a b c d e f\nLine2- a b c\n\nLine4- a b c d";
In [351]:
str.splitlines( )
Out[351]:
['Line1-a b c d e f', 'Line2- a b c', '', 'Line4- a b c d']
In [352]:
str.splitlines( 0 )
Out[352]:
['Line1-a b c d e f', 'Line2- a b c', '', 'Line4- a b c d']
In [353]:
str.splitlines( 3 )
Out[353]:
['Line1-a b c d e f\n', 'Line2- a b c\n', '\n', 'Line4- a b c d']
```

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```
In [354]:
str.splitlines( 4 )
Out[354]:
['Line1-a b c d e f\n', 'Line2- a b c\n', '\n', 'Line4- a b c d']
In [355]:
str.splitlines( 5 )
Out[355]:
['Line1-a b c d e f\n', 'Line2- a b c\n', '\n', 'Line4- a b c d']
In [357]:
str = "Line1-a b c d e f\nLine2- a b c\n\nLine4- a b c d";
In [359]:
str.splitlines(True)
Out[359]:
['Line1-a b c d e f\n', 'Line2- a b c\n', '\n', 'Line4- a b c d']
In [360]:
str.splitlines( 0 )
Out[360]:
['Line1-a b c d e f', 'Line2- a b c', '', 'Line4- a b c d']
In [361]:
str.splitlines( 3 )
Out[361]:
['Line1-a b c d e f\n', 'Line2- a b c\n', '\n', 'Line4- a b c d']
In [362]:
str.splitlines( 4 )
Out[362]:
['Line1-a b c d e f\n', 'Line2- a b c\n', '\n', 'Line4- a b c d']
In [366]:
str.splitlines( 5 )
Out[366]:
['Line1-a b c d e f\n', 'Line2- a b c\n', '\n', 'Line4- a b c d']
```

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```
In [367]:
str = "this is string example....wow!!!";
In [368]:
str.startswith( 'this' )
Out[368]:
True
In [369]:
str.startswith( 'is', 2, 4 )
Out[369]:
True
In [370]:
str.startswith( 'this', 2, 4 )
Out[370]:
False
In [371]:
str = "0000000this is string example....wow!!!0000000";
In [373]:
str.strip( '0' )
Out[373]:
'this is string example....wow!!!'
In [374]:
str = "this is string example....wow!!!";
In [375]:
str.swapcase()
Out[375]:
'THIS IS STRING EXAMPLE....WOW!!!'
In [376]:
str = "THIS IS STRING EXAMPLE....WOW!!!";
```

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```
In [377]:
str.swapcase()
Out[377]:
'this is string example....wow!!!'
In [379]:
str = "this is string exampl....wow!!!";
In [380]:
str.title()
Out[380]:
'This Is String Exampl....Wow!!!'
In [381]:
str = "this is string example....wow!!!";
In [382]:
str.upper()
Out[382]:
'THIS IS STRING EXAMPLE....WOW!!!'
In [383]:
str = "this is string example....wow!!!";
In [384]:
str.zfill(40)
Out[384]:
'0000000this is string example....wow!!!'
In [385]:
str.zfill(50)
Out[385]:
'000000000000000000this is string example....wow!!!'
In [386]:
str = u"this2009";
```

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```
In [387]:
str.isdecimal();
In [388]:
str = u"23443434";
In [390]:
str.isdecimal();
In [391]:
print(str)
23443434
In [392]:
str = u"this2009";
In [393]:
str.isdecimal();
In [394]:
print(str)
this2009
In [ ]:
```

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