#Exploring String Functions

In [167]:
```
string='assignment on string functions 1 2 3 2 1'
```

In [7]:
```
dir(string)
```

Out[7]:
```
['__add__',
 '__class__',
 '__contains__',
 '__delattr__',
 '__dir__',
 '__doc__',
 '__eq__',
 '__format__',
 '__ge__',
 '__getattribute__',
 '__getitem__',
 '__getnewargs__',
 '__gt__',
 '__hash__',
 '__init__',
 '__init_subclass__',
 '__iter__',
 '__le__',
 '__len__',
 '__lt__',
 '__mod__',
 '__mul__',
 '__ne__',
 '__new__',
 '__reduce__',
 '__reduce_ex__',
 '__repr__',
 '__rmod__',
 '__rmul__',
 '__setattr__',
 '__sizeof__',
 '__str__',
 '__subclasshook__',
 'capitalize',
 'casefold',
 'center',
 'count',
 'encode',
 'endswith',
 'expandtabs',
 'find',
```

```
 'format',
 'format_map',
 'index',
 'isalnum',
 'isalpha',
 'isascii',
 'isdecimal',
 'isdigit',
 'isidentifier',
 'islower',
 'isnumeric',
 'isprintable',
 'isspace',
 'istitle',
 'isupper',
 'join',
 'ljust',
 'lower',
 'lstrip',
 'maketrans',
 'partition',
 'replace',
 'rfind',
 'rindex',
 'rjust',
 'rpartition',
 'rsplit',
 'rstrip',
 'split',
 'splitlines',
 'startswith',
 'strip',
 'swapcase',
 'title',
 'translate',
 'upper',
 'zfill']
```

In [20]:
```
string.capitalize()
```

Out[20]:
```
'Assignment on string functions 1 2 3 2 1 '
```

In [21]:
```
string.casefold()
```

Out[21]:
```
'assignment on string functions 1 2 3 2 1 '
```

In [22]:
```
string.center(40,"#")
```

Out[22]:
```
'assignment on string functions 1 2 3 2 1 '
```

In [24]:
```
string.count("1")
```

Out[24]:
```
2
```

In [25]:
```
string.encode()
```

Out[25]:
```
b'assignment on string functions 1 2 3 2 1 '
```

In [58]:
```
import base64
st=base64.b64encode(string.encode('utf8'))
print(st)
```

```
b'YXNzaWdubWVudCBvbiBzdHJpbmcgZnVuY3Rpb25zIDEgMiAzIDIgMSA='
```

In [65]:
```
string.endswith("1")
```

Out[65]:
```
True
```

In [67]:
```
string2="Anik\tPal"
```

In [68]:
```
string2.expandtabs()
```

Out[68]:
```
'Anik    Pal'
```

In [69]:
```
# Find Location
string.find("1")
```

Out[69]:
```
31
```

In [72]:
```
print("1st name {}, Last name {}".format("Anik","Pal"))
```

```
1st name Anik, Last name Pal
```

In [74]:
```
A={'x':1,'y':2}
print('{x}{y}'.format_map(A))
```

```
12
```

In [80]:
```
# Finding index of a value
string.index("st")
```

Out[80]:
```
14
```

In [93]:
```
st1="111"
st2="abc123"
st3="abc 123"
print(st1.isalnum())
print(st2.isalnum())
print(st3.isalnum())
```

```
True
True
False
```

In [97]:
```
string2.isascii()
```

Out[97]:
```
True
```

In [101]:
```
str1="123"
str2="abc123"
print(str1.isdecimal())
print(str2.isdecimal())
```

```
True
False
```

In [103]:
```
str1="123"
str2="abc123"
print(str1.isdigit())
print(str2.isdigit())
```

```
True
False
```

In [108]:
```
str1 = 'AnikPal'
print(str1.isidentifier())
str2 = 'Anik Pal'
print(str2.isidentifier())
```

```
True
False
```

In [110]:
```
st="hello World"
print(st.islower())
```

```
False
```

In [111]:
```
string.isnumeric()
```

Out[111]:
```
False
```

In [115]:
```
st1="Anik"
st2="Anik\t"
print(st1.isprintable())
print(st2.isprintable())
```

```
True
False
```

In [119]:
```
st1="\t"
st2="Anik"
print(st1.isspace())
print(st2.isspace())
```

```
True
False
```

In [123]:
```
st1="Hi There"
st2="Hi there"
print(st1.istitle())
print(st2.istitle())
```

```
True
False
```

In [124]:
```
string.isupper()
```

Out[124]:
```
False
```

In [125]:
```
st1="Anik"
st2="123"
print(st1.join(st2))
print(st2.join(st1))
```

```
1Anik2Anik3
A123n123i123k
```

In [129]:
```
st="Anik"
print(st.ljust(10,"*"))
```

```
Anik******
```

In [130]:
```
st="Anik"
print(st.lower())
```

```
anik
```

In [15]:
```
st="Hello World"
print(st.lstrip("he"))
```

```
Hello World
```

In [5]:
```
st1="Welcome back brother"
print(st1.partition("back"))
print(st1.partition("hi"))
```

```
('Welcome ', 'back', ' brother')
('Welcome back brother', '', '')
```

In [135]:
```
st1="very very bad"
print(st1.replace("very","bad"))
```

```
bad bad bad
```

In [138]:
```
string.rfind("2")
```

Out[138]:
```
37
```

In [140]:
```
string.rindex("1")
```

Out[140]:
```
39
```

In [142]:
```
str1="Anik"
print(str1.rjust(20,"*"))
```

```
**********Anik
```

In [148]:
```
string.rpartition('string')
```

Out[148]:
```
('assignment on ', 'string', ' functions 1 2 3 2 1')
```

In [149]:
```
string.rsplit()
```

Out[149]:
```
['assignment', 'on', 'string', 'functions', '1', '2', '3', '2', '1']
```

In [8]:
```
str1="Anik Pal"
print(str1.rstrip('al'))
```

```
Anik P
```

In [171]:
```
str1="A rainny day"
print(str1.split())
```

```
['A', 'rainny', 'day']
```

In [172]:
```
str1="A rainny day"
print(str1.startswith("rain"))
print(str1.startswith("A"))
```

```
False
True
```

In [173]:
```
str1="A rainny day"
print(str1.swapcase())
```

```
a RAINNY DAY
```

In [174]:
```
string.title()
```

Out[174]:
```
'Assignment On String Functions 1 2 3 2 1'
```

In [176]:
```
string.translate('1')
```

Out[176]:
```
'assignment on string functions 1 2 3 2 1'
```

In [179]:
```
str1="It's fun"
print(str1.zfill(20))
```

```
000000000000It's fun
```