```
In [1]:
```

```
1 print(dir(str))
['_add_', '_class_', '_contains_', '_delattr_', '_dir_', '_doc_
_', '_eq_', '_format_', '_ge_', '_getattribute_', '_getitem_', '_
getnewargs_', '_gt_', '_hash_', '_init_', '_init_subclass_', '_ite
r_', '_le_', '_len_', '_lt_', '_mod_', '_mul_', '_ne_', '_new_
_', '_reduce_', '_reduce_ex_', '_repr_', '_rmod_', '_rmul_', '_se
tattr_', '_sizeof_', '_str_', '_subclasshook_', 'capitalize', 'casefo
ld', 'center', 'count', 'encode', 'endswith', 'expandtabs', 'find', 'forma
t', 'format_map', 'index', 'isalnum', 'isalpha', 'isascii', 'isdecimal', 'is
digit', 'isidentifier', 'islower', 'isnumeric', 'isprintable', 'isspace', 'i
stitle', 'isupper', 'ioin', 'liust', 'lower', 'lstrip', 'maketrans', 'partit
stitle', 'isupper', 'join', 'ljust', 'lower', 'lstrip', 'maketrans', 'partit ion', 'replace', 'rfind', 'rindex', 'rjust', 'rpartition', 'rsplit', 'rstri p', 'split', 'splitlines', 'startswith', 'strip', 'swapcase', 'title', 'tran
 slate', 'upper', 'zfill']
In [3]:
     1 | s = "python programming"
     2 s.capitalize() #capitalize the first character
Out[3]:
 'Python programming'
 In [4]:
    1 s1 = "PythonN"
     2 s2 = "python"
     3 | s1.casefold() #converts to lowercase alphabet
Out[4]:
 'pythonn'
 In [5]:
     1 s1.lower()
                                        #always converts to lowercase
Out[5]:
 'pythonn'
 In [6]:
          s2.upper() #converts to upper case
 Out[6]:
```

'PYTHON'

```
In [7]:
    s1.swapcase() # converts uppercase alphabets to lower and lower to uppercase
Out[7]:
'pYTHONn'
In [14]:
    s = "Python123"
 1
 2 print(s.isdigit())
 3 s1 = "Python Programming 123 #$@"
 4 print(s1.isdigit())
    s2 = "12345"
 5
 6 print(s2.isdigit())
   s2.isdigit()
False
False
True
Out[14]:
True
In [17]:
    s3= "Python Programming"
 2 print(s3.isalpha())
 3 print(s2.isalpha())
 4 print(s1.isalpha())
 5 s4 = "PythonProgramming"
 6 print(s4.isalpha())
False
False
False
True
In [15]:
    s1 = "Python Programming 123 #$@"
    print(s1.isalnum())
False
In [16]:
   s = "Python123"
   print(s.isalnum())
True
In [24]:
 1 s3= "Python Programming"
 2 print(s3.split())
['Python', 'Programming']
```

```
In [25]:
```

```
1  s3= "Python Programming"
2  s4= s3.split("P")
3  type(s4)
4  s3
5  s4
```

Out[25]:

```
['', 'ython ', 'rogramming']
```

In [27]:

```
1 s3 = "hdfgPython Programming"
2 s4 = s3.split("P")
3 type(s4)
4 s3
5 s4
```

Out[27]:

```
['hdfg', 'ython', 'rogramming']
```

In [28]:

Out[28]:

```
['hdfgPython', '$', ' Programming']
```

In [31]:

```
1  s1 = "Python Programming 123 #$@"
2  for i in s1:
3     print(i,end=" ")
4     if i.isdigit():
5         print(i)
```

```
Python Programming 11
2 2
3 3
# $ @
```

```
In [34]:
```

```
1  s1 = "Python Programming 123 #$@"
2  print(s1)
3  for i in s1:
4    if i.isdigit():
5         print(i)
```

Python Programming 123 #\$@ 1 2 3

In [33]:

```
1  s1 = "Python Programming 123 #$@"
2  for i in s1:
3    if i.isdigit():
4         print(i,end="")
```

123

In [38]:

['Python', 'Programming', '123', '#\$@'] 123

In [39]:

```
1 s = " Python programming"
```

In [40]:

```
print(s.lstrip())
print(s.rstrip())
print(s.strip())
```

Python programming
Python programming
Python programming

In [42]:

```
print(s.replace(" ","@"))
print(s.replace("p","#"))
```

@@@@@@Python@programming Python #rogramming

```
In [43]:
 print(s.replace(" ","@"))
 2 print(s.replace("p","#"))
 3 | s1 = s.strip()
 4 s1.replace(" ","")
 5 s.replace(" ","")
@@@@@@Python@programming
      Python #rogramming
Out[43]:
'Pythonprogramming'
In [44]:
 1 s = "Python Programming"
 2 "@".join(s)
   "CSE".join(s)
Out[44]:
'PCSEyCSEtCSEhCSEoCSEnCSE CSEPCSErCSEoCSEgCSErCSEaCSEmCSEiCSEnCSEg'
In [46]:
 1 s.count("g")
 2 print(s.count("m"))
   print(s.count("mm"))
2
1
In [51]:
 1 s.index("g")
Out[51]:
10
In [49]:
 1 s = "Python programming"
 2 s.istitle()
Out[49]:
False
In [50]:
   s.title()
Out[50]:
```

'Python Programming'

```
In [52]:
 1 s.index("g")
 2 s[10]
Out[52]:
'g'
In [53]:
 1 s.index("g")
 2 s[15]
Out[53]:
'i'
In [57]:
 1 s = "Python programming 123"
 2 s.istitle()
Out[57]:
False
In [59]:
 1 #s = "Python Programming 123"
 2 s.title()
Out[59]:
'Python Programming 123'
In [63]:
 1 s.startswith("P")
Out[63]:
True
In [61]:
 1 s
Out[61]:
'Python Programming 123'
```

```
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                                             Class7 - Jupyter Notebook
 In [1]:
   1 s = "Python"
   2 s #APSSDCPythonAPSSDC # @@@@@@@Python@@@@@@@
     s.center()
                                            Traceback (most recent call last)
  TypeError
  <ipython-input-1-a37334f24b27> in <module>
        1 s = "Python"
        2 s #APSSDCPythonAPSSDC # @@@@@@@Python@@@@@@@
  ---> 3 s.center()
 TypeError: center() takes at least 1 argument (0 given)
 In [2]:
   1 s = "Python"
   2 s #APSSDCPythonAPSSDC # @@@@@@@Python@@@@@@@
   3 s.center(8,"1")
 Out[2]:
  '1Python1'
 In [3]:
   1 s = "Python"
   2 s #APSSDCPythonAPSSDC # @@@@@@@Python@@@@@@@
   3 s.center(5,"@")
 Out[3]:
  'Python'
 In [4]:
   1 s = "Python"
     s #APSSDCPythonAPSSDC # @@@@@@@Python@@@@@@@@
     s.center(10,"1")
 Out[4]:
  '11Python11'
  In [2]:
      s = "Python Python Programming"
   1
   2
      for i in range(len(s)):
   3
          #print(i) # 0,1,2,3
          #print(s[i]) #pyt
   4
          if s[i] == "P":
   5
   6
               print(i)
```

localhost:8888/notebooks/Desktop/PYTHON WORKSHOP/Class7.ipynb

```
In [3]:
```

4

In [4]:

```
1  s = "Python Python Programming"
2  for i in s:
3    if i == "P":
4         print(s.index(i))
```

0 0 0

0

In []:

1