In [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', '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 [2]:

```
s = "python program"
```

String methods

In [4]:

```
s.capitalize()  # capitalize(capital letter) the first character
```

Out[4]:

```
'Python program'
```

In [8]:

```
s1 = 'PYTHON'
s2 = 'PyThon'
s2.casefold()   # converts the capital to lower case alphabets
```

Out[8]:

```
'python'
```

In [10]:

```
s1.lower()     # always converts the upper to lower case alphabets
```

Out[10]:

```
'python'
```

In [11]:

```
s.upper()   # converts to upper case
```

Out[11]:

```
'PYTHON PROGRAM'
```

In [12]:

```
s2.swapcase()   # swaps upper and lower case alphabets
```

Out[12]:

```
'pYtHON'
```

In [16]:

```
n = "123"
print(n.isdigit())       # isdigit checks the only digits in a string
n1 = 'sirishapasam5 @ 123465'
print(n1.isdigit())
```

```
True
False
```

In [18]:

```
n2 = 'sirisha pasam'
n3 = 'sirishapasam'
print(n2.isalpha())   # n2 has space which is not alphabet,so false
print(n3.isalpha())   # n3 has only alphabets,so true
print(n1.isalpha())   #n1 has digits and characters combo,sofalse
```

```
False
True
False
```

In [21]:

```
print(n1.isalnum())   # isalnum  checks alphabets and numbers
s = "sirishapsam12345"
print(s.isalnum())
```

```
False
True
```

In [42]:

```
s = "sirisha pasam1234 @87"
s2 = s.split("m12")
type(s2)
s
s2
```

Out[42]:

```
['sirisha pasa', '34 @87']
```

In [66]:

```
s1 = "sirisha pasam 1234 @87"
print(s1)
for i in s1:
    if i.isdigit():
        print(i,end = " ")  # 1 2 3 4 8 7
```

```
sirisha pasam 1234 @87
1 2 3 4 8 7
```

In [54]:

```
s1 = "sirisha pasam 1234 @87".split()
print(s1)
for i in s1:
    if i.isdigit():
        print(i,end = " ")
```

```
['sirisha', 'pasam', '1234', '@87']
1234
```

In [64]:

```
s =  "   sirisha pasam    "
```

In [67]:

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

```
sirisha pasam
   sirisha pasam
sirisha pasam
```

In [76]:

```
print(s.replace(" ","*"))
print(s1.replace("i","#"))
s2 = s.strip()
s2.replace(" "," ")
s.replace(" "," ")
```

```
***sirisha*pasam****
s#r#sha pasam 1234 @87
```

Out[76]:

```
'   sirisha pasam    '
```

In [79]:

```
print(s.replace(" ","*"))
print(s1.replace("s","#"))
```

```
***sirisha*pasam****
#iri#ha pa#am 1234 @87
```

In [87]:

```
s = 'python programming'
print(" # ".join(s))
print(" SIRI ".join(s))
```

```
p # y # t # h # o # n #   # p # r # o # g # r # a # m # m # i # n # g
p SIRI y SIRI t SIRI h SIRI o SIRI n SIRI   SIRI p SIRI r SIRI o SIRI g SIRI
r SIRI a SIRI m SIRI m SIRI i SIRI n SIRI g
```

In [88]:

```
s.count("s")
print(s.count("m"))
print(s.count("mm"))
```

```
2
1
```

In [105]:

```
s = "python programming"
print(s.index("y"))
print(s.index("i"))
```

```
1
15
```

In [96]:

```
s = "python programming"
s.istitle()
```

Out[96]:

```
False
```

In [97]:

```
s.title()
```

Out[97]:

```
'Python Programming'
```

In [110]:

```
print(s.startswith("p"))
print(s.startswith("y"))
```

```
True
False
```

In [112]:

```
print(s.endswith("g"))
print(s.endswith("i"))
```

```
True
False
```

In [130]:

```
s = "python"
s
s.center(20,"#")
```

Out[130]:

```
'#######python#######'
```

In [147]:

```
s = "python python python programming"
for i in range(len(s)):
    if s[i] == "p":
        print(i)
```

```
0
7
14
21
```

In [153]:

```
s = "python python python programming"
for i in  s:
     print(i,end = " ")

```

```
p y t h o n   p y t h o n   p y t h o n   p r o g r a m m i n g
```

In [ ]:

```

```