In [1]:

```
1 s="this is My First Python programmimg class and i am learNING python string and its fu
```

In [2]:

```
1 s[1:300:3]
```

Out[2]:

```
'h   r tnrrmglsnimeNGyosi dtfco'
```

In [3]:

```
1 s[::-1]
```

Out[3]:

```
'noitcnuf sti dna gnirts nohtyp GNINrael ma i dna ssalc gmimmargorp nohtyP t
sriF yM si siht'
```

In [4]:

```
1 s="this is My First Python programmimg class and i am learNING python string and its fu
```

In [7]:

```
1 s.upper()
```

Out[7]:

```
'THIS IS MY FIRST PYTHON PROGRAMMIMG CLASS AND I AM LEARNING PYTHON STRING A
ND ITS FUNCTION'
```

In [8]:

```
1 s
```

Out[8]:

```
'this is My First Python programmimg class and i am learNING python string a
nd its function'
```

In [9]:

```
1 s.split("i")
```

Out[9]:

```
['th',
 's ',
 's My F',
 'rst Python programm',
 'mg class and ',
 ' am learNING python str',
 'ng and ',
 'ts funct',
 'on']
```

In [38]:

```
1 s1
```

Out[38]:

```
'THIS IS MY FIRST PYTHON PROGRAMMIMG CLASS AND I AM LEARNING PYTHON STRING A
ND ITS FUNCTION'
```

In [39]:

```
1 s1.split("N")
```

Out[39]:

```
['THIS IS MY FIRST PYTHO',
 ' PROGRAMMIMG CLASS A',
 'D I AM LEAR',
 'I',
 'G PYTHO',
 ' STRI',
 'G A',
 'D ITS FU',
 'CTIO',
 '']
```

In [11]:

```
1 s.lower()
```

Out[11]:

```
'this is my first python programmimg class and i am learning python string a
nd its function'
```

In [12]:

```
1 s.capitalize()
```

Out[12]:

```
'This is my first python programmimg class and i am learning python string a
nd its function'
```

In [13]:

```
1 #isalnum() function includes either alphabets or numbers
2 #isalpha() function includes only alphabets
```

In [14]:

```
1 s="123hg"
2 s.isalnum()
```

Out[14]:

```
True
```

In [15]:

```
s.isalpha()
```

Out[15]:

```
False
```

In [16]:

```
s="lucky"
s.isalpha()
```

Out[16]:

```
True
```

In [17]:

```
s="this\tis\tMy\tFirst\tPython\tprogrammimg\tclass\tand\ti\tam\tlearNING\tpython\tstrir
s
```

Out[17]:

```
'this\tis\tMy\tFirst\tPython\tprogrammimg\tclass\tand\ti\tam\tlearNING\tpyth
on\tstring\tand\tits\tfunction'
```

In [18]:

```
s.expandtabs()
```

Out[18]:

```
'this    is      My      First   Python  programmimg     class   and     i
am      learNING        python  string  and     its     function'
```

In [19]:

```
s="full stack data science bootcamp"
s
```

Out[19]:

```
'full stack data science bootcamp'
```

In [20]:

```
s="full\tstack\tdata\tscience\tbootcamp"
s.expandtabs()
```

Out[20]:

```
'full    stack   data    science bootcamp'
```

In [22]:

```
s="     this is My First Python programmimg class and i am learNING python string and i
s.strip()
```

Out[22]:

```
'this is My First Python programmimg class and i am learNING python string a
nd its function'
```

In [23]:

```
1 s.lstrip()
```

Out[23]:

```
'this is My First Python programmimg class and i am learNING python string a
nd its function     '
```

In [24]:

```
1 s.rstrip()
```

Out[24]:

```
'     this is My First Python programmimg class and i am learNING python str
ing and its function'
```

In [25]:

```
1 s="   full   stack   data   science   "
2 s
```

Out[25]:

```
'   full   stack   data   science   '
```

In [26]:

```
1 s.strip()
```

Out[26]:

```
'full   stack   data   science'
```

In [27]:

```
1 s.lstrip()
```

Out[27]:

```
'full   stack   data   science   '
```

In [28]:

```
1 s.rstrip()
```

Out[28]:

```
'   full   stack   data   science'
```

In [29]:

```
1 s="full stack data science"
2 s
```

Out[29]:

```
'full stack data science'
```

In [30]:

```
s.replace("a","e")
```

Out[30]:

```
'full steck dete science'
```

In [31]:

```
s.replace("t","n")
```

Out[31]:

```
'full snack dana science'
```

In [ ]:

```
##srting center()function:
In python language string center() function ia an inbuilt function is used for align a
```

In [32]:

```
s="pythonlanguage"
s
```

Out[32]:

```
'pythonlanguage'
```

In [33]:

```
s.center(40,'x')
```

Out[33]:

```
'xxxxxxxxxxxxxpythonlanguagexxxxxxxxxxxxx'
```

In [34]:

```
s= "python language"
s
```

Out[34]:

```
'python language'
```

In [35]:

```
s.center(40,"x")
```

Out[35]:

```
'xxxxxxxxxxxxpython languagexxxxxxxxxxxxx'
```

In [36]:

```
s='36'
s.center(15,'o')
```

Out[36]:

```
'ooooooo36ooooooo'
```

In [37]:

```
##write your own definition of compiler and interpreter
```

In [ ]:

```
##Compiler:
    Compiler translates the entire source code in to machine understandable language th
    It take more time to run the program and occupies more memory.
    It executes the source code line by line during execution.
Interpreter:
    Interpreter translates the soure code into machine code that includes compiled code
    It translates only one statement at a time.
```

In [ ]:

```
##python is a interpreted of compiled language give a clear answer with your understanc

yes python ia an interpreted language.Because it generates the code to byte code throug
```

In [ ]:

```
##try to write a usecase of python with your understanding
gaming applications
business applications
business analytic
data science
data visualization
CAD applications
artificial intellegence etc
```