

# Python 1st code

- LETS WORK WITH NUMBER

In [1]: `10+5`

Out[1]: 15

In [2]: `10-5`

Out[2]: 5

In [3]: `10*5`

Out[3]: 50

In [4]: `10/5`

Out[4]: 2.0

In [5]: `10//5`

Out[5]: 2

In [6]: `5+(5*5)`

Out[6]: 30

In [7]: `(5+5)*5`

Out[7]: 50

In [8]: `_ + 3`

Out[8]: 53

In [9]: `import sys`  
`sys.version`

Out[9]: '3.12.7 | packaged by Anaconda, Inc. | (main, Oct 4 2024, 13:17:27) [MSC v.1929 64 bit (AMD64)]'

In [10]: `1+1`  
`2+1`  
`3+1`

Out[10]: 4

```
In [11]: print(1+1)
         print(1+2)
         print(1+3)
```

2  
3  
4

```
In [12]: a=10
         b=20

         c=a+b
         print(c)
```

30

```
In [13]: print(a)
         print(b)
         print(c)
```

10  
20  
30

```
In [14]: num1=20
         num2=30

         add=num1+num2

         print(add)
         #print('the addition of ',num1,'and',num2,'is=',add)
```

50

```
In [15]: num1=20
         num2=30

         add=num1+num2
         print('the addition of--',num1,'and',num2,'is==',add)
```

the addition of-- 20 and 30 is== 50

```
In [16]: 22nd oct
```

Cell In[16], line 1

22nd oct

^

**SyntaxError:** invalid decimal literal

python variable concept=pythonidentifier concept .syntax of define variable //(variable name=variable value)// (identifier=value)

```
In [ ]: NIT=15
        NIT
```

```
In [ ]: NIT=20
```

```
NIT
```

```
In [ ]: V=15  
V
```

```
In [ ]: print(V)  
print(NIT)
```

```
In [ ]: NIT
```

```
In [ ]: Nit
```

```
In [ ]: v
```

```
In [ ]: V
```

```
In [ ]: 1var=20  
1var
```

```
In [ ]: var$=56  
var$
```

```
In [ ]: var=67  
var
```

```
In [ ]: x_train, x_test=80,20  
print(x_train)  
print(x_test)
```

```
In [ ]: a,b,c,d=10,20,30,40  
print(a)  
print(b)  
print(c)  
print(d)
```

```
In [ ]: 'e'=45
```

```
In [ ]: aaaaaaaaaaaaaaaaaaaaaa=78  
a
```

```
In [ ]: ABC=100  
abc
```

```
In [ ]: nit_=50  
nit_
```

python identifier is completed

```
In [ ]: 1nit=20  
1nit
```

In [ ]: python identifier completed

\*\*\*\*\***TYPE CASTING**\*\*\*\*\* Type casting-converting each og data type to other data types Integer-covert

In [ ]: 1.Integer-converts float, boolean, and string, (only if string is a number)to but d (if string is word it doesnot accept)and compare

2.Float -converts int, string (only if string is a number)and boolean,but

3.Boolean-converts into all data types

4.Complex-converts into int, float, boolean, and string (only if string is a number

5.String -converts into all data types

In [ ]: 1.INTEGER-Other data types to int

In [ ]: int(5.3) #float to int

In [ ]: int(True)

In [ ]: int('NIT') #string to int doesnot work

In [ ]: int('10')

In [ ]: int(20+30j) #complex to int does not work

In [ ]: 2.FLOAT -Converting other data types to float

In [ ]: float(5)

In [ ]: float(True)

In [ ]: float('NIT') # string to float doesnot work

In [ ]: float('10.6')

In [ ]: float(10+20j) #cmplex to float does not work

In [ ]: 3.BOOLEAN-Converting other data types

In [ ]: a.bool()-False  
a.bool of non zero is True

In [ ]: bool(1)

In [ ]: bool(0) #int to bool

In [ ]: bool()

```
In [ ]: bool(1.5)
```

```
In [ ]: bool('NIT')
```

```
In [ ]: bool(10+20j) #complex to bool
```

```
In [ ]: 4.COMPLEX  
a.In complex first value is taken as a and 2nd value as b
```

```
In [ ]: complex(1)
```

```
In [ ]: complex(2.5)
```

```
In [ ]: complex(True,False) #boolean to complex
```

```
In [ ]: complex(False)
```

```
In [ ]: complex(4,2.3)
```

```
In [ ]: complex('NIT')
```

```
In [ ]: complex('10')
```

```
In [ ]: 5.STRING
```

```
In [ ]: str(1)
```

```
In [ ]: str(3.5)
```

```
In [ ]: str(True)
```

```
In [ ]: str(10+20j)
```

```
In [ ]: PYTHON DATA STRUCTURES
```

```
In [ ]: 1.LIST
```

```
In [ ]: list=[]  
list
```

```
In [ ]: print(type(list))
```

```
In [ ]: list1=[10,20,30]  
list1 #list is an integer
```

```
In [ ]: list2=[10,73,30,66,60,76]  
list2
```

```
In [ ]: list3=['one','two','three']  
list3  # list of strings
```

```
In [ ]: list4=['Asif',25,[54,86],[150,90]]  
list4  #nested lists
```

```
In [ ]: list5=[100,'Asif',17.59]  
list5  #list of mixed data type
```

```
In [ ]: list6=['Asif',25,[50,100],[150,90],{'john','david'}]  
list6
```

```
In [ ]: len(list6)
```

```
In [ ]: list2
```

```
In [ ]: LIST INDEXING
```

```
In [ ]: list2[0]
```

```
In [ ]: list3[0]
```

```
In [ ]: list3[0][0]
```

```
In [ ]: list3[-1]
```

```
In [ ]: list4[-1]
```

```
In [ ]: LIST SLICING
```

```
In [ ]: mylist=['one','two','three','four','five','six','seven','eight']  
mylist
```

```
In [ ]: mylist[0:3]
```

```
In [ ]: mylist[2:5]
```

```
In [ ]: mylist[:2]
```

```
In [ ]: mylist[-3:]
```

```
In [ ]: mylist[-2:]
```

```
In [ ]: mylist[-1]
```

```
In [ ]: mylist[:]
```

```
In [ ]: ADD, REMOVE&CHANGES ITEMS
```

```
In [ ]: mylist
```

```
In [ ]: mylist.append('nine')  
mylist
```

```
In [ ]: mylist.remove('nine')  
mylist
```

```
In [ ]: mylist.insert(1, 'one')  
mylist
```

```
In [ ]: mylist.remove('one')  
mylist
```

```
In [ ]: mylist.pop()  
mylist
```

```
In [ ]: mylist.pop(7)  
mylist
```

```
In [ ]: del mylist[5]  
mylist
```

```
In [ ]: mylist[0]=1  
mylist[1]=2  
mylist[2]=3  
mylist
```

```
In [ ]: mylist.clear()  
mylist
```

```
In [ ]: COPYLIST
```

```
In [ ]: mylist=['one', 'two', 'three', 'four', 'five', 'six', 'seven', 'eight', 'nine']  
mylist
```

```
In [ ]: mylist1=mylist
```

```
In [ ]: id(mylist), id(mylist1)
```

```
In [ ]: mylist2=mylist.copy()
```

```
In [ ]: id(mylist2)
```

```
In [ ]: mylist[0]=1
```

```
In [ ]: mylist
```

```
In [ ]: mylist1
```

```
In [ ]: mylist2
```

```
In [ ]: JOIN LISTS
```

```
In [ ]: list1=['one','two','three','four']  
list1
```

```
In [ ]: list2=['five','six','seven','eight']  
list2
```

```
In [ ]: list1.extend(list2)  
list1
```

```
In [ ]: LIST MEMBERSHIP
```

```
In [ ]: list1
```

```
In [ ]: 'one' in list1
```

```
In [ ]: 'ten' in list1
```

```
In [ ]: if 'three' in list1:  
        print('three is present in the list')  
else:  
        print('three is not present in the list')
```

```
In [ ]: if 'eleven' in list1:  
        print('eleven is present in the list')  
else:  
        print('eleven is present in the list')
```

```
In [ ]: REVERSE AND SORT LIST
```

```
In [ ]: list1
```

```
In [ ]: list1.reverse()  
list1
```

```
In [ ]: mylist3=[9,5,2,99,12,88,34]  
mylist3.sort()
```

```
In [ ]: mylist3
```

```
In [ ]: mylist3=[9,5,2,99,12,88,34]  
mylist3.sort(reverse=True)  
mylist3
```



```
In [ ]: mylist4=[88,65,33,21,11,98]
        sorted(mylist4)
```

```
In [ ]: mylist4
```

```
In [ ]: loop through a list
```

```
In [ ]: list1
```

```
In [ ]: for i in list1:
        print(i)
```

```
In [ ]: for i in enumerate (list1):
        print(i)
```

```
In [ ]: list10=['one','two','three','four','one','one','two','three']
        list10
```

```
In [ ]: list10.count('one')
```

```
In [ ]: list10.count('two')
```

```
In [ ]: All/Any
```

```
In [ ]: l1=[1,2,3,4,0]
        l1
```

```
In [ ]: all(l1)
```

```
In [ ]: any(l1)
```

```
In [ ]: l2=[1,2,3,4,True,False]
```

```
In [ ]: all(l2)
```

```
In [ ]: any(l2)
```

```
In [ ]: 2.TUPLE
        tup1=() # empty tuple
```

```
In [ ]: tup2=(10,20,30)
        tup2 # tuple of integer number
```

```
In [ ]: tup3=(10.5,23.5,30.5)
        tup3 # tuple of float number
```

```
In [ ]: tup4=('one','two','three')
        tup4
```

```
In [ ]: tup5=('Asif',24,(50,100),(150,90))
        tup5 # nested tuple
```

```
In [ ]: tup6=(200,'Asif',17.98)
        tup6 # tup with mixed data type
```

```
In [ ]: tup7=('Asif',35,[50,100],[150,100],{'John','David'},(99,22,33))
        tup7
```

```
In [ ]: len(tup7)
```

```
In [ ]: Tuple indexing
```

```
In [ ]: tup2[0]
```

```
In [ ]: tup4[0]
```

```
In [ ]: tup4[-1]
```

```
In [ ]: tup5[-1]
```

```
In [ ]: Tuple slicing
```

```
In [ ]: mytuple=('one','two','three','four','five','six','seven','eight')
        mytuple
```

```
In [ ]: mytuple[0:3]
```

```
In [ ]: mytuple[2:5]
```

```
In [ ]: mytuple[:3]
```

```
In [ ]: mytuple[:2]
```

```
In [ ]: mytuple[-3:]
```

```
In [ ]: mytuple[-2:]
```

```
In [ ]: mytuple[-1:]
```

```
In [ ]: mytuple[:]
```

```
In [ ]: mytuple
```

```
In [ ]: Remove&change items
```

```
In [ ]: mytuple
```

```
In [ ]: del mytuple[0] # tuple are immutable which means we can't delete tuple items
```

```
In [ ]: mytuple[0]=1 #tuple are immutable which means we can't change tuple items
```

```
In [ ]: del mytuple #Deleting entire tuple object is possible
```

```
In [ ]: loop through a tuple
```

```
In [ ]: for i in mytuple:
        print(i)
```

```
In [ ]: mytuple
```

```
In [ ]: for i in enumerate (mytuple):
        print(i)
```

```
In [ ]: Tuple membership
```

```
In [ ]: mytuple
```

```
In [ ]: 'one' in mytuple # check if 'one' exist in the list
```

```
In [ ]: 'ten' in mytuple #check if 'ten' exists in the list
```

```
In [ ]: if 'three' in mytuple: #check if 'three' exists in the tuple
        print('three is present in the tuple.')
        else:
        print('three is not present in the tuple.')
```

```
In [ ]: if 'eleven' in mytuple:
        print('Eleven is present in the mytuple.')
        else:
        print('Eleven is not present in mytuple.')
```

```
In [ ]: index position
```

```
In [ ]: mytuple
```

```
In [ ]: mytuple.index('one') #index of first element equal to 'one'
```

```
In [ ]: mytuple.index('five')
```

```
In [ ]: mytuple1=('one','two','three','four','one','one','two','three')
```

```
In [ ]: mytuple1
```

```
In [ ]: mytuple1.index('three')
```

```
In [ ]: mytuple.index('three') #repetition of element in tuple, index always print
```

```
In [ ]: Sorting
```

```
In [ ]: mytuple2=(789,89,2,35,789,10,40)
mytuple2
```

```
In [ ]: sorted(mytuple2)
```

```
In [ ]: sorted(mytuple2,reverse=True)
```

```
In [ ]: Tuple count
```

```
In [ ]: mytuple1
```

```
In [ ]: mytuple1.count('one')
```

```
In [ ]: mytuple1.count('two')
```

```
In [ ]: mytuple.count('three')
```

```
In [ ]: mytuple.count('four')
```

```
In [ ]: 3.SET
```

```
In [ ]: myset={1,2,3,4,5}
myset
```

```
In [ ]: len(myset)
```

```
In [ ]: myset={1,1,2,2,3,4,5,5}
myset
```

```
In [ ]: myset1={1.79,2.8,3.99,4.56,5.45}
myset1
```

```
In [ ]: myset2={'ASIF', 'JOHN', 'TYRION'}
myset2
```

```
In [ ]: myset3={10,20,"Hola",[11,22,32]}
myset3
```

```
In [ ]: myset4=set()
print(type(myset4))
```

```
In [ ]: myset5=set(('one','two','three','four'))
myset5
```

```
In [ ]: myset={'one','two','three','four','six','seven','eight'}
myset
```

```
In [ ]: for i in myset:  
        print(i)
```

```
In [ ]: for i in enumerate (myset):  
        print(i)
```

```
In [ ]: set membership
```

```
In [ ]: myset
```

```
In [ ]: 'one' in myset
```

```
In [ ]: 'ten' in myset
```

```
In [ ]: if 'three' in myset:  
        print('three is present in the set')  
else:  
    print('three is not present in the set')
```

```
In [ ]: if 'eleven' in myset:  
        print('eleven is present in the set')  
else:  
    print('eleven is not present in the set')
```

```
In [ ]: add & remove items
```

```
In [ ]: myset={'eight', 'four', 'one', 'seven', 'six', 'three', 'two'}  
myset
```

```
In [ ]: myset.add('NINE')  
myset
```

```
In [ ]: myset.update(['TEN', 'ELEVEN', 'TWELVE'])  
myset
```

```
In [ ]: myset.remove('NINE')  
myset
```

```
In [ ]: myset.discard('ten')  
myset
```

```
In [ ]: myset.clear()
```

```
In [ ]: myset
```

```
In [ ]: del myset
```

```
In [ ]: myset
```

```
In [ ]: copy set
```

```
In [ ]: myset= {'one','two','three','four','five','six','seven','eight'}  
myset
```

```
In [ ]: myset1=myset
```

```
In [ ]: myset1
```

```
In [ ]: id(myset1),id(myset)
```

```
In [ ]: myset2=myset.copy()
```

```
In [ ]: myset2
```

```
In [ ]: id(myset2)
```

```
In [ ]: myset.add('nine')  
myset
```

```
In [ ]: myset1
```

```
In [ ]: myset2
```

```
In [ ]: set operation
```

```
In [ ]: a={1,2,3,4,5}  
b={4,5,6,7,8}  
c={8,9,10}
```

```
In [ ]: a|b
```

```
In [ ]: a.union(b)
```

```
In [ ]: a.union(b,c)
```

```
In [ ]: a.update(b,c)
```

```
In [ ]: a
```

```
In [ ]: a={1,2,3,4,5}  
b={4,5,6,7,8}
```

```
In [ ]: a&b
```

```
In [ ]: a.intersection(b)
```

```
In [ ]: a.intersection_update(b)
```

```
In [ ]: a
```

```
In [ ]: a={1,2,3,4,5}  
b={4,5,6,7,8}
```

```
In [ ]: a-b
```

```
In [ ]: a.difference(b)
```

```
In [ ]: b.difference(a)
```

```
In [ ]: b.difference_update(a)
```

```
In [ ]: b
```

```
In [ ]: a={1,2,3,4,5}  
b={4,5,6,7,8}
```

```
In [ ]: a^b
```

```
In [ ]: a.symmetric_difference(b)
```

```
In [ ]: a.symmetric_difference_update(b)
```

```
In [ ]: a
```

```
In [ ]: a={1,2,3,4,5,6,7,8,9}  
b={3,4,5,6,7,8}  
c={10,20,30,40}
```

```
In [ ]: b.issubset(a)
```

```
In [ ]: b.issuperset(a)
```

```
In [ ]: a.issuperset(b)
```

```
In [ ]: a.isdisjoint(b)
```

```
In [ ]: a.isdisjoint(c)
```

```
In [ ]: b.isdisjoint(c)
```

```
In [ ]: other built in function
```

```
In [ ]: a
```

```
In [ ]: sum(a)
```

```
In [ ]: max(a)
```

```
In [ ]: min(a)
```

```
In [ ]: list(enumerate(a))
```

```
In [ ]: d=sorted(a,reverse=True)  
d
```

```
In [ ]: sorted(a)
```

```
In [ ]: sorted(d)
```

```
In [ ]: 4.dictionary
```

```
In [ ]: d=dict()  
d
```

```
In [ ]: print(type(d))
```

```
In [ ]: d={}  
d
```

```
In [ ]: d={1:'one',2:'two',3:'three'}  
d
```

```
In [ ]: d=dict({1:'one',2:'two',3:'three'})
```

```
In [ ]: d
```

```
In [ ]: d1={'A':'one','B':'two','C':'three'}  
d1
```

```
In [ ]: d2={1:'one','A':'two',3:'three'}  
d2
```

```
In [ ]: d2.keys()
```

```
In [ ]: d2.values()
```

```
In [ ]: d2.items()
```

```
In [ ]: d4={1:'one',2:'two','A':['asif','john','Maria'],'B':('Bat','Cat','hat')}  
d4
```

```
In [ ]: keys={'a','b','c','d'}  
d5=dict.fromkeys(keys)  
d5
```



```
In [ ]: keys={'a','b','c','d'}  
        values=10  
        d6=dict.fromkeys(keys,values)  
        d6
```

```
In [ ]: keys={'a','b','c','d'}  
        value=[10,20,30]  
        d6=dict.fromkeys(keys,value)  
        d6
```

```
In [ ]: value.append(40)  
        d6
```

```
In [ ]: Accessing items
```

```
In [ ]: d1
```

```
In [ ]: d1['A']
```

```
In [ ]: d1.get('A')
```

```
In [ ]: d7={'Name':'Asif','ID':74123,'DOB':1991,'job':'Analyst'}  
        d7
```

```
In [ ]: d7['Name']
```

```
In [ ]: d7.get('job')
```

```
In [ ]: add,remove&change items
```

```
In [ ]: d7
```

```
In [ ]: d7['DOB']=1992  
        d7['job']='developer'  
        d7
```

```
In [ ]: d8={'DOB':1995}  
        d7.update(d8)  
        d7
```

```
In [ ]: d7['Address']='hyderabad'  
        d7
```

```
In [ ]: d7.pop('job')  
        d7
```

```
In [ ]: del[d7['Address']]
```

```
In [ ]: d7
```

```
In [ ]: d7.clear()  
d7
```

```
In [ ]: del d7  
d7
```

```
In [ ]: copy dictionary
```

```
In [ ]: d7={'Name':'Asif','ID':74123,'DOB':1991,'job':'Analyst'}  
d7
```

```
In [ ]: d8=d7
```

```
In [ ]: id(d7),id(d8)
```

```
In [ ]: d9=d7.copy()
```

```
In [ ]: d9
```

```
In [ ]: id(d9)
```

```
In [ ]: d7['job']='developer'  
d7
```

```
In [ ]: d8
```

```
In [ ]: d9
```

```
In [ ]: loop through dictionary
```

```
In [ ]: d8={'Name':'Asif','ID':74123,'DOB':1991,'job':'developer'}  
d8
```

```
In [ ]: for i in d8:  
    print(d8)
```

```
In [ ]: for i in d8:  
    print(d8[i])
```

```
In [ ]: for i in d8:  
    print(i,':',d8[i])
```

```
In [ ]: Dictionary membership
```

```
In [ ]: d7
```

```
In [ ]: 'Name' in d7
```

```
In [ ]: 'Asif' in d7
```

```
In [ ]: 'ID' in d7
```

```
In [ ]: 'Address' in d7
```

```
In [ ]: Any&All
```

```
In [ ]: d7
```

```
In [ ]: d7[0]='mark'  
d7
```

```
In [ ]: any(d7)
```

```
In [ ]: all(d7)
```

```
In [ ]: 4 types of data structures completed
```

```
In [ ]: STRING  
Escape character
```

```
In [2]: print("Hello there!\nHow are you?\nI'm doing fine.")
```

```
Hello there!  
How are you?  
I'm doing fine.
```

```
In [ ]: row string
```

```
In [3]: print(r"Hello there!\nHow are you?\nI'm doing fine.")
```

```
Hello there!\nHow are you?\nI'm doing fine.
```

```
In [ ]: multiline string
```

```
In [4]: print(  
        "" Dear Alice,  
        Eve's cat has been arrested for catnapping,  
        cat burglary,and extortion.  
  
        scicerealy,  
        Bob""  
    )
```

```
Dear Alice,  
    Eve's cat has been arrested for catnapping,  
    cat burglary,and extortion.  
  
    scicerealy,  
    Bob
```

```
In [ ]: indexing&slicing
```

```
In [5]: spam='Hello world!'
```

```
In [6]: spam
```

```
Out[6]: 'Hello world!'
```

```
In [7]: spam[0]
```

```
Out[7]: 'H'
```

```
In [8]: spam[4]
```

```
Out[8]: 'o'
```

```
In [9]: spam[-1]
```

```
Out[9]: '!'
```

```
In [ ]: slicing
```

```
In [10]: spam[0:5]
```

```
Out[10]: 'Hello'
```

```
In [12]: spam[:5]
```

```
Out[12]: 'Hello'
```

```
In [14]: spam[6:-1]
```

```
Out[14]: 'world'
```

```
In [15]: spam[::-1]
```

```
Out[15]: '!dlrow olleH'
```

```
In [16]: spam[:-1]
```

```
Out[16]: 'Hello world'
```

```
In [ ]: the in & not operator
```

```
In [17]: 'hello' in 'hello world'
```

```
Out[17]: True
```

```
In [18]: 'HELLO' in 'hello world'
```

```
Out[18]: False
```

```
In [19]: 'cat' not in 'cat and dog'
```

Out[19]: False

```
In [ ]: upper(),lower(),title()
```

```
In [20]: spam
```

Out[20]: 'Hello world!'

```
In [21]: spam.upper()
```

Out[21]: 'HELLO WORLD!'

```
In [22]: spam.lower()
```

Out[22]: 'hello world!'

```
In [23]: spam.title()
```

Out[23]: 'Hello World!'

```
In [ ]: is upper()&is lower()methods
```

```
In [24]: spam='Hello world'  
spam
```

Out[24]: 'Hello world'

```
In [25]: spam.isupper()
```

Out[25]: False

```
In [26]: spam.islower()
```

Out[26]: False

```
In [27]: spam.istitle()
```

Out[27]: False

```
In [28]: 'HELLO'.isupper()
```

Out[28]: True

```
In [29]: 'hello'.islower()
```

Out[29]: True

```
In [ ]: startswith&endswith
```

```
In [30]: 'hello world!'.startswith('hello')
```

Out[30]: True

```
In [31]: 'hello world!'.endswith('with')
```

Out[31]: False

```
In [32]: 'abc123'.startswith('abcde')
```

Out[32]: False

```
In [ ]: join().split()
```

```
In [33]: ''.join(['my','name','is','gudu'])
```

Out[33]: 'mynameisgudu'

```
In [34]: ' '.join(['my','name','is','gudu'])
```

Out[34]: 'my name is gudu'

```
In [35]: ' abc '.join(['my','name','is','gudu'])
```

Out[35]: 'my abc name abc is abc gudu'

```
In [36]: 'my name is gudu.'.split()
```

Out[36]: ['my', 'name', 'is', 'gudu.']

```
In [37]: 'my abc name abc is abc gudu'.split('abc')
```

Out[37]: ['my ', ' name ', ' is ', ' gudu']

```
In [38]: 'my name is gudu'.split('m')
```

Out[38]: ['', 'y na', 'e is gudu']

```
In [ ]: rjust(),ljust(),center()
```

```
In [39]: 'hello'.rjust(10)
```

Out[39]: ' hello'

```
In [41]: 'hello'.ljust(10)
```

Out[41]: 'hello '

```
In [42]: 'hello'.center(10)
```

Out[42]: ' hello '

```
In [43]: 'hello'.center(20,'*')
```

```
Out[43]: '*****hello*****'
```

```
In [ ]: removing & white space  
strip(),rstrip()&lstrip()
```

```
In [44]: spam='    hello world!  '  
spam
```

```
Out[44]: '    hello world!  '
```

```
In [45]: spam.strip()
```

```
Out[45]: 'hello world!'
```

```
In [46]: spam.lstrip()
```

```
Out[46]: 'hello world!  '
```

```
In [47]: spam.rstrip()
```

```
Out[47]: '    hello world!'
```

```
In [ ]: count method
```

```
In [49]: spam='one sheep two sheep three sheep four'  
spam
```

```
Out[49]: 'one sheep two sheep three sheep four'
```

```
In [50]: spam.count('e')
```

```
Out[50]: 9
```

```
In [51]: spam.count('sheep')
```

```
Out[51]: 3
```

```
In [52]: spam.count('e',6)
```

```
Out[52]: 8
```

```
In [ ]: replace method
```

```
In [53]: text="Hello world1"  
text
```

```
Out[53]: 'Hello world1'
```

```
In [54]: text.replace("world1","planet")
```

```
Out[54]: 'Hello planet'
```

```
In [55]: fruits='apple,banana,cherry,apple'
         fruits
```

```
Out[55]: 'apple,banana,cherry,apple'
```

```
In [56]: fruits.replace('apple','orange',1)
```

```
Out[56]: 'orange,banana,cherry,apple'
```

```
In [57]: sentence= "I like apples, Apples are my favourite fruit"
         sentence.replace("apples","oranges")
```

```
Out[57]: 'I like oranges, Apples are my favourite fruit'
```

```
In [ ]: string assignment completed
```

```
In [ ]:
```

```
In [ ]:
```

```
In [ ]:
```

```
In [ ]:
```

```
In [ ]:
```

```
In [ ]:
```

```
In [ ]:
```

```
In [ ]:
```

```
In [ ]:
```

```
In [ ]:
```

```
In [ ]:
```

```
In [ ]:
```

```
In [ ]:
```

```
In [ ]:
```

```
In [ ]:
```

```
In [ ]:
```

```
In [ ]:
```



In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]: