

```
In [74]: txt = " abc def ghi "  
txt.lstrip()
```

```
Out[74]: 'abc def ghi '
```

```
In [75]: txt = " abc def ghi "  
txt.strip()
```

```
Out[75]: 'abc def ghi'
```

```
In [76]: mystr = "My favourite TV Series is "Game of Thrones""
```

```
Cell In[76], line 1  
    mystr = "My favourite TV Series is "Game of Thrones"  
                                         ^  
SyntaxError: invalid syntax
```

```
In [77]: mystr = "My favourite series is \"Game of Thrones\""  
print(mystr)
```

```
My favourite series is "Game of Thrones"
```

```
In [78]: list1 = []
```

```
In [79]: print(type(list1))
```

```
<class 'list'>
```

```
In [80]: list2 = [10,30,60]
```

```
In [81]: list3 = [10.77,30.66,60.89]
```

```
In [82]: list4 = ['one','two' , "three"]
```

```
In [83]: list5 = ['Asif', 25 ,[50, 100],[150, 90]]
```

```
In [84]: list6 = [100, 'Asif', 17.765]
```

```
In [85]: list7 = ['Asif', 25 ,[50, 100],[150, 90] , {'John' , 'David'}]
```

```
In [86]: len(list6)
```

```
Out[86]: 3
```

```
In [87]: list2[0]
```

```
Out[87]: 10
```

```
In [88]: list4[0]
```

```
Out[88]: 'one'
```

```
In [89]: list4[0][0]
```

```
Out[89]: 'o'
```

```
In [90]: list4[-1]
```

```
Out[90]: 'three'
```

```
In [91]: list5[-1]
```

```
Out[91]: [150, 90]
```

```
In [92]: mylist = ['one' , 'two' , 'three' , 'four' , 'five' , 'six' , 'seven' , 'eight']
```

```
In [93]: mylist[0:3]
```

```
Out[93]: ['one', 'two', 'three']
```

```
In [94]: mylist[2:5]
```

```
Out[94]: ['three', 'four', 'five']
```

```
In [95]: mylist[:3]
```

```
Out[95]: ['one', 'two', 'three']
```

```
In [96]: mylist[:2]
```

```
Out[96]: ['one', 'two']
```

```
In [97]: mylist[-3:]
```

```
Out[97]: ['six', 'seven', 'eight']
```

```
In [98]: mylist[-2:]
```

```
Out[98]: ['seven', 'eight']
```

```
In [99]: mylist[-1]
```

```
Out[99]: 'eight'
```

```
In [100]: mylist[:]
```

```
Out[100]: ['one', 'two', 'three', 'four', 'five', 'six', 'seven', 'eight']
```

```
In [101]: mylist
```

```
Out[101]: ['one', 'two', 'three', 'four', 'five', 'six', 'seven', 'eight']
```

```
In [102]: mylist.append('nine')  
mylist
```

```
Out[102]: ['one', 'two', 'three', 'four', 'five', 'six', 'seven', 'eight', 'nine']
```

```
In [104]: mylist.insert(9, 'ten')  
mylist
```

```
Out[104]: ['one', 'two', 'three', 'four', 'five', 'six', 'seven', 'eight', 'nine', 'ten']
```

```
In [105]: mylist.insert(1, 'ONE')  
mylist
```

```
Out[105]: ['one',  
            'ONE',  
            'two',  
            'three',  
            'four',  
            'five',  
            'six',  
            'seven',  
            'eight',  
            'nine',  
            'ten']
```

```
In [106]: mylist.remove('ONE')  
mylist
```

```
Out[106]: ['one', 'two', 'three', 'four', 'five', 'six', 'seven', 'eight', 'nine', 'ten']
```

```
In [107]: mylist.pop()  
mylist
```

```
Out[107]: ['one', 'two', 'three', 'four', 'five', 'six', 'seven', 'eight', 'nine']
```

```
In [108]: mylist.pop(8) # Remove item at index location 8  
mylist
```

```
Out[108]: ['one', 'two', 'three', 'four', 'five', 'six', 'seven', 'eight']
```

```
In [109]: del mylist[7]  
mylist
```

```
Out[109]: ['one', 'two', 'three', 'four', 'five', 'six', 'seven']
```

```
In [110]: mylist[0] = 1  
mylist[1] = 2  
mylist[2] = 3  
mylist
```

```
Out[110]: [1, 2, 3, 'four', 'five', 'six', 'seven']
```

```
In [111]: mylist.clear()  
mylist
```

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

```
In [112]: del mylist  
mylist
```

```
-----  
NameError                                Traceback (most recent call last)  
Cell In[112], line 2  
      1 del mylist  
----> 2 mylist  
  
NameError: name 'mylist' is not defined
```

```
In [114]: mylist = ['one', 'two', 'three', 'four', 'five', 'six', 'seven', 'eight', 'nine']
```

```
In [115]: mylist1 = mylist
```

```
In [116]: id(mylist) , id(mylist1)
```

```
Out[116]: (1510359990720, 1510359990720)
```

```
In [117]: mylist2 = mylist.copy()
```

```
In [118]: id(mylist2)
```

```
Out[118]: 1510374805376
```

```
In [119]: mylist[0] = 1
```

```
In [120]: mylist
```

```
Out[120]: [1, 'two', 'three', 'four', 'five', 'six', 'seven', 'eight', 'nine']
```

```
In [121]: mylist1
```

```
Out[121]: [1, 'two', 'three', 'four', 'five', 'six', 'seven', 'eight', 'nine']
```

```
In [122]: mylist2
```

```
Out[122]: ['one', 'two', 'three', 'four', 'five', 'six', 'seven', 'eight', 'nine']
```

```
In [123]: list1 = ['one', 'two', 'three', 'four']  
list2 = ['five', 'six', 'seven', 'eight']
```

```
In [124]: list3 = list1 + list2  
list3
```

```
Out[124]: ['one', 'two', 'three', 'four', 'five', 'six', 'seven', 'eight']
```

```
In [125]: list1.extend(list2)  
list1
```

```
Out[125]: ['one', 'two', 'three', 'four', 'five', 'six', 'seven', 'eight']
```

```
In [126]: list1
```

```
Out[126]: ['one', 'two', 'three', 'four', 'five', 'six', 'seven', 'eight']
```

```
In [127]: 'one' in list1
```

```
Out[127]: True
```

```
In [128]: 'ten' in list1
```

```
Out[128]: False
```

```
In [129]: if 'three' in list1:  
           print('Three is present in the list')  
else:  
           print('Three is not present in the list')
```

```
Three is present in the list
```

```
In [130]: if 'eleven' in list1:  
           print('eleven is present in the list')  
else:  
           print('eleven is not present in the list')
```

```
eleven is not present in the list
```

```
In [131]: list1
```

```
Out[131]: ['one', 'two', 'three', 'four', 'five', 'six', 'seven', 'eight']
```

```
In [132]: list1.reverse()  
list1
```

```
Out[132]: ['eight', 'seven', 'six', 'five', 'four', 'three', 'two', 'one']
```

```
In [133]: list1 = list1[::-1]  
list1
```

```
Out[133]: ['one', 'two', 'three', 'four', 'five', 'six', 'seven', 'eight']
```

```
In [134]: mylist3 = [9,5,2,99,12,88,34]
mylist3.sort()
mylist3
```

```
Out[134]: [2, 5, 9, 12, 34, 88, 99]
```

```
In [135]: mylist3 = [9,5,2,99,12,88,34]
mylist3.sort(reverse=True)
mylist3
```

```
Out[135]: [99, 88, 34, 12, 9, 5, 2]
```

```
In [136]: mylist4 = [88,65,33,21,11,98]
sorted(mylist4)
```

```
Out[136]: [11, 21, 33, 65, 88, 98]
```

```
In [137]: mylist4
```

```
Out[137]: [88, 65, 33, 21, 11, 98]
```

```
In [138]: list1
```

```
Out[138]: ['one', 'two', 'three', 'four', 'five', 'six', 'seven', 'eight']
```

```
In [139]: for i in list1:
          print(i)
```

```
one
two
three
four
five
six
seven
eight
```

```
In [140]: for i in enumerate(list1):
          print(i)
```

```
(0, 'one')
(1, 'two')
(2, 'three')
(3, 'four')
(4, 'five')
(5, 'six')
(6, 'seven')
(7, 'eight')
```

```
In [141]: list10 = ['one', 'two', 'three', 'four', 'one', 'one', 'two', 'three']
```

```
In [142]: list10.count('one')
```

```
Out[142]: 3
```

```
In [143]: list10.count('two')
```

```
Out[143]: 2
```

```
In [144]: list10.count('four')
```

```
Out[144]: 1
```

```
In [145]: list10.count('four')
```

```
Out[145]: 1
```

```
In [146]: L1 = [1,2,3,4,0]
```

```
In [147]: all(L1)
```

```
Out[147]: False
```

```
In [148]: any(L1)
```

```
Out[148]: True
```

```
In [149]: L2 = [1,2,3,4,True,False]
```

```
In [150]: all(L2)
```

```
Out[150]: False
```

```
In [151]: any(L2)
```

```
Out[151]: True
```

```
In [152]: L3 = [1,2,3,True]
```

```
In [153]: all(L3)
```

```
Out[153]: True
```

```
In [ ]:
```