```
L1=list()
```

```
L2=list([10,20,30])
L2
```

```
[10, 20, 30]
```

```
L3=list(["Apple","Banana","Grapes"])
L3
```

```
['Apple', 'Banana', 'Grapes']
```

```
L4=list(range(0,6))
L4
```

```
[0, 1, 2, 3, 4, 5]
```

```
L33=list([1.1,2.1,3.1,4.1])
```

```
L5=list("XYZ")
```

```
L6=[10,20,30]
L6
```

```
[10, 20, 30]
```

```
L7=["Apple","Banana","Grapes"]
```

```
L8=[12.9,13.9,14.9]
```

```
L9=(["Sanjay",20.22,1,"Male"])
L9
```

```
['Sanjay', 20.22, 1, 'Male']
```

```
L1=([10,20,30,40])
```

```
L1[0]
```

```
10
```

```
L1[3]
```

```
40
```

```
L8[4]
```

```
---------------------------------------------------------------------------
IndexError                                Traceback (most recent call last)
<ipython-input-30-1efe0020f558> in <module>()
----> 1 L8[4]

IndexError: list index out of range
```

SEARCH STACK OVERFLOW

```
List1=[10,20,30,40,50,60]
```

```
List1[-1]
```

```
60
```

```
List1[-5]
```

```
20
```

```
List1[1:4]
```

```
[20, 30, 40]
```

```
L1=["Hello",1,"Monkey",2,"Dog",3,"Donkey"]
New_L1=L1[0:6:2]
print(New_L1)
```

```
['Hello', 'Monkey', 'Dog']
```

```
L2=["Python",450,"c",300,"c++",670]
L2[0:6:3]
```

```
['Python', 300]
```

```
L3=[1,2,3,4]
L3[:2]
```

```
[1, 2]
```

```
L4=[1,2,3,4,5,6,7,8,9]
L4[::-1]
```

```
[9, 8, 7, 6, 5, 4, 3, 2, 1]
```

```
L4=[1,2,3,4,5,6,7,8,9]
L4[::-3]
```

```
[9, 6, 3]
```

```
Fun_L1=["Red","Orange","Pink"]
len(Fun_L1)
```

```
3
```

```
Fun_L2=[10,20,30,40,50]
len(Fun_L2)
```

```
5
```

```
min(Fun_L2)
```

```
10
```

```
max(Fun_L2)
```

```
50
```

```
import random
random.shuffle(Fun_L2)
Fun_L2
```

```
[20, 50, 40, 10, 30]
```

```
sum(Fun_L2)
```

```
150
```

```
a=[1,2,3]
print(a)
b=[4,5,6]
print(b)
a+b
```

```
[1, 2, 3]
[4, 5, 6]
[1, 2, 3, 4, 5, 6]
```

```
L1=[10,20,30]
L1
L2=2*L1
L2
```

```
[10, 20, 30, 10, 20, 30]
```

```
L3=4*L1
L3
```

```
[10, 20, 30, 10, 20, 30, 10, 20, 30, 10, 20, 30]
```

```
40 in L3
```

```
False
```

```
20 in L3
```

```
True
```

```
A=['A','B','C']
B=['A','B','C']
A is B
```

```
False
```

```
A="Microsoft"
B="Microsoft"
A is B
```

```
True
```

```
L1=[10,20,30,40,50,60,70,80,90]
del(L1[3])
L1
```

```
[10, 20, 30, 50, 60, 70, 80, 90]
```

```
L1=[10,20,30,40,50,60,70,80,90]
del(L1[-2])
print(L1)
```

```
[10, 20, 30, 40, 50, 60, 70, 90]
```

```
L1=['x','y','z']
L1
L1.append('A')
L1
```

```
['x', 'y', 'z', 'A']
```

```
L2=["Red","Blue","Pink"]
print(L2)
L2.clear()
L2
```

```
['Red', 'Blue', 'Pink']
[]
```

```
L2=['A','B','A','B']
print(L2)
L2.count('A')
```

```
['A', 'B', 'A', 'B']
2
```

```
L4=["Red","Blue","Pink"]
print(L4)
L5=L4.copy()
L5
```

```
['Red', 'Blue', 'Pink']
['Red', 'Blue', 'Pink']
```

```
L5=[1,2,3]
L6=[4,5,6]
L5
L6
L5.extend(L6)
print(L5)
```

```
[1, 2, 3, 4, 5, 6]
```

```
L6=['A','B','C','D','A']
L6
L6.index('B')
```

```
1
```

```
L7=[10,20,30,40,50]
L7
L7.insert(4,60)
print(L7)
L7.pop()
L7
```

```
[10, 20, 30, 40, 60, 50]
[10, 20, 30, 40, 60]
```

```
L9=['A','B','C','D','E']
print(L9)
L9.remove('B')
print(L9)
L9.reverse()
print(L9)
```

```
['A', 'B', 'C', 'D', 'E']
```

```
['A', 'C', 'D', 'E']
['E', 'D', 'C', 'A']
```