



```
In [32]: l=[]  
l
```

```
Out[32]: []
```

```
In [ ]:
```

```
In [33]: type(l)
```

```
Out[33]: list
```

```
In [34]: print(type(l))
```

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

```
In [35]: l
```

```
Out[35]: []
```

```
In [36]: l.append(11)  
l
```

```
Out[36]: [11]
```

```
In [37]: len(l)
```

```
Out[37]: 1
```

```
In [38]: l.append(22)  
l.append(33)  
l.append(44)  
l.append(55)  
l
```

```
Out[38]: [11, 22, 33, 44, 55]
```

```
In [39]: len(l)
```

```
Out[39]: 5
```

```
In [40]: l.apend(6,7)
```

```
-----  
AttributeError                                Traceback (most recent call last)  
Cell In[40], line 1  
----> 1 l.apend(6,7)  
  
AttributeError: 'list' object has no attribute 'apend'
```

```
In [ ]: l.append(11)
```

```
In [ ]: l
```

```
Out[ ]: [11, 22, 33, 44, 55, 11]
```

```
In [ ]: l
```

```
Out[ ]: [11, 22, 33, 44, 55, 11]
```

```
In [ ]: l[0]
```

```
Out[ ]: 11
```

```
In [ ]: print(l[1])  
print(l[4])
```

```
22  
55
```

```
In [ ]: l[-5]
```

```
Out[ ]: 22
```

```
In [ ]: l[-1]=66  
l
```

```
Out[ ]: [11, 22, 33, 44, 55, 66]
```

```
In [ ]:
```

```
-----  
NameError                                Traceback (most recent call last)  
Cell In[5], line 1  
----> 1 l.count  
  
NameError: name 'l' is not defined
```

```
In [ ]: l[0]
```

```
Out[ ]: 11
```

```
In [ ]: l1= []
```

```
In [ ]: l1=l.copy()  
l1
```

```
Out[ ]: [11, 22, 33, 44, 55]
```

```
In [ ]: print(l)  
print(l1)
```

```
[11, 22, 33, 44, 55]  
[11, 22, 33, 44, 55]
```

```
In [ ]: l==l1
```

```
Out[ ]: True
```

```
In [ ]: id(l)==id(l1)
```

```
Out[ ]: False
```

```
In [ ]: id(l)!=id(l1)
```

```
Out[ ]: True
```

```
In [ ]: l.append(22)
```

```
In [ ]: l.count(22)
```

```
Out[ ]: 2
```

```
In [ ]: l.count(55)
```

```
Out[ ]: 1
```

```
In [ ]: l.count(1)
```

```
Out[ ]: 0
```

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

```
Out[ ]: 6
```

```
In [ ]: l
```

```
Out[ ]: [11, 22, 33, 44, 55, 22]
```

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

```
In [ ]: l
```

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

```
In [ ]: l1
```

```
Out[ ]: [11, 22, 33, 44, 55]
```

```
In [ ]: del l1
```

```
In [ ]: l1
```

```
-----  
NameError                                Traceback (most recent call last)  
Cell In[38], line 1  
----> 1 l1  
  
NameError: name 'l1' is not defined
```

```
In [ ]: l
```

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

```
In [ ]: l.append(22)  
        l.append(33)  
        l.append(44)  
        l.append(55)  
        l
```

```
Out[ ]: [22, 33, 44, 55]
```

```
In [ ]: l2=[]  
        l2
```

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

```
In [ ]: l2.append(3)  
        l2.append('python')  
        l2.append(True)  
        l2.append(1+5j)  
        l2.append(9.3)  
        l2
```

```
Out[ ]: [3, 'python', True, (1+5j), 9.3]
```

```
In [ ]: l2[3]
```

```
Out[ ]: (1+5j)
```

```
In [ ]: l2[1]
```

```
Out[ ]: 'python'
```

```
In [ ]: l2[1][4]
```

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

```
In [ ]: l2[1][0]
```

```
Out[ ]: 'p'
```

```
In [ ]: l2[1]
```

Out[]: 'python'

```
In [ ]: print(l2[1][0])
        print(l2[1][1])
        print(l2[1][2])
        print(l2[1][3])
        print(l2[1][4])
        print(l2[1][5])
```

p
y
t
h
o
n

```
In [ ]: l
```

Out[]: [11, 22, 33, 44, 55]

```
In [ ]: l[:]
```

Out[]: [11, 22, 33, 44, 55]

```
In [ ]: l[1:4]
```

Out[]: [22, 33, 44]

```
In [ ]: l
```

Out[]: [11, 22, 33, 44, 55]

```
In [ ]: l[:8]
```

Out[]: [11, 22, 33, 44, 55]

```
In [ ]: l[0:6:2]
```

Out[]: [11, 33, 55]

```
In [45]: l2=[]
        l2
```

Out[45]: []

```
In [46]: l2.append(3)
        l2.append('python')
        l2.append(True)
        l2.append(1+5j)
        l2.append(9.3)
        l2
```

Out[46]: [3, 'python', True, (1+5j), 9.3]

In [47]: l2

Out[47]: [3, 'python', True, (1+5j), 9.3]

In [48]: l2[1:6:2]

Out[48]: ['python', (1+5j)]

In [49]: l

Out[49]: [11, 22, 33, 44, 55]

In [50]: l.insert(3,66)

In [51]: l

Out[51]: [11, 22, 33, 66, 44, 55]

In [52]: l.insert(11,4)
l

Out[52]: [11, 22, 33, 66, 44, 55, 4]

In [53]: l.pop()
l

Out[53]: [11, 22, 33, 66, 44, 55]

In [54]: l.pop()

Out[54]: 55

In [55]: l

Out[55]: [11, 22, 33, 66, 44]

In [56]: l2

Out[56]: [3, 'python', True, (1+5j), 9.3]

In [57]: l2.pop(3)

Out[57]: (1+5j)

In [58]: l2

Out[58]: [3, 'python', True, 9.3]

```
In [59]: l2.remove('python')
```

```
In [60]: l2
```

```
Out[60]: [3, True, 9.3]
```