26 sep Python Inbuilt Data structures List In []: In [3]: l=[] Out[3]: [] In [4]: l1=list() l1 Out[4]: [] In [5]: type(l) Out[5]: list In [6]: len(l) Out[6]: 0 In [7]: len(l1) Out[7]: 0 In []: List Function In [8]: l Out[8]: [] In [12]: l.append(10) In [13]: l Out[13]: [10, 10, 10] In [16]: l.remove(10,10) **TypeError** Traceback (most recent call last) Cell In[16], line 1 ----> 1 l.remove(10,10) TypeError: list.remove() takes exactly one argument (2 given) In [17]: l Out[17]: [10, 10] In [19]: l.remove(10) In [20]: l Out[20]: [10] In [21]: l.append(20) l.append(30) l.append(40) l.append(50) Out[21]: [10, 20, 30, 40, 50] In [22]: len(l) Out[22]: 5 In [23]: l1 Out[23]: []

In [24]: l1.append(2.3)

```
l1.append(True)
         l1.append('10')
         l1.append(1+2j)
         l1
Out[24]: [2.3, True, '10', (1+2j)]
In [25]: l1
Out[25]: [2.3, True, '10', (1+2j)]
In [26]: l
Out[26]: [10, 20, 30, 40, 50]
In [28]: l1.append(2.3)
         l1
Out[28]: [2.3, True, '10', (1+2j), 2.3, 2.3]
In [29]: 12
        NameError
                                                 Traceback (most recent call last)
        Cell In[29], line 1
        ----> 1 l2
       NameError: name 'l2' is not defined
In [30]: l2=l1.copy()
In [31]: 12
Out[31]: [2.3, True, '10', (1+2j), 2.3, 2.3]
In [32]: l1
Out[32]: [2.3, True, '10', (1+2j), 2.3, 2.3]
In [33]: l1==l2
Out[33]: True
In [34]: l
Out[34]: [10, 20, 30, 40, 50]
In [35]: l==l2
Out[35]: False
In [36]: | 12==11
Out[36]: True
In [37]: 12
Out[37]: [2.3, True, '10', (1+2j), 2.3, 2.3]
In [38]: l2.clear()
In [39]: 12
Out[39]: []
In [40]: len(l2)
Out[40]: 0
In [41]: 12.append(50)
         12.append(8.9)
         l2.append('hi')
         12.append(False)
         l2.append(1+2j)
Out[41]: [50, 8.9, 'hi', False, (1+2j)]
In [42]: print(l)
```

```
print(l1)
         print(l2)
        [10, 20, 30, 40, 50]
[2.3, True, '10', (1+2j), 2.3, 2.3]
        [50, 8.9, 'hi', False, (1+2j)]
 In [ ]:
In [43]: l
Out[43]: [10, 20, 30, 40, 50]
In [44]: \[:]
Out[44]: [10, 20, 30, 40, 50]
In [45]: l[3]
Out[45]: 40
In [46]: 11
Out[46]: [2.3, True, '10', (1+2j), 2.3, 2.3]
In [47]: l1[2:]
Out[47]: ['10', (1+2j), 2.3, 2.3]
In [48]: l1[:4]
Out[48]: [2.3, True, '10', (1+2j)]
 In [ ]:
In [49]: 12
Out[49]: [50, 8.9, 'hi', False, (1+2j)]
In [50]: l2[:5]
Out[50]: [50, 8.9, 'hi', False, (1+2j)]
In [51]: l2[:-2]
Out[51]: [50, 8.9, 'hi']
In [52]: 12[-4:]
Out[52]: [8.9, 'hi', False, (1+2j)]
 In [ ]:
In [53]: l
Out[53]: [10, 20, 30, 40, 50]
In [54]: l[:-2]
Out[54]: [10, 20, 30]
In [55]: l[-4:-2]
Out[55]: [20, 30]
 In [ ]:
In [56]: l1
Out[56]: [2.3, True, '10', (1+2j), 2.3, 2.3]
In [57]: l1[:-4]
Out[57]: [2.3, True]
In [58]: l1[:2]
```

Out[58]: [2.3, True]

```
In [ ]:
In [59]: 12
Out[59]: [50, 8.9, 'hi', False, (1+2j)]
In [60]: l2[:4]
Out[60]: [50, 8.9, 'hi', False]
In [61]: \l2[-2:-6]
Out[61]: []
In [62]: l2[-1:]
Out[62]: [(1+2j)]
In [ ]:
In [63]: l1
Out[63]: [2.3, True, '10', (1+2j), 2.3, 2.3]
In [64]: l1.count(l1)
Out[64]: 0
In [65]: l1.count(2.3)
Out[65]: 3
In [66]: l1.count(.)
        Cell In[66], line 1
           l1.count(.)
       SyntaxError: invalid syntax
 In [ ]:
In [67]: 11
Out[67]: [2.3, True, '10', (1+2j), 2.3, 2.3]
In [68]: l1.index(True)
Out[68]: 1
In [ ]:
In [69]: l1
Out[69]: [2.3, True, '10', (1+2j), 2.3, 2.3]
In [70]: l1.remove(2.3)
In [71]: l1
Out[71]: [True, '10', (1+2j), 2.3, 2.3]
In [72]: l1
Out[72]: [True, '10', (1+2j), 2.3, 2.3]
In [74]: l1.remove('10')
In [75]: l1
Out[75]: [True, (1+2j), 2.3, 2.3]
In [ ]:
In [77]: l1.append([1,2,3])
In [78]: l1
```

Out[78]: [True, (1+2j), 2.3, 2.3, [1, 2, 3]]

In []:

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