LIST METHODS (4 MARCH)

```
In [7]: l=[10,20,30,30,40]
 Out[7]: [10, 20, 30, 30, 40]
 In [9]: for i in 1:
             print(i)
        10
        20
        30
        30
        40
In [11]: l.append([1,2,3,'hi']) #nested list
Out[11]: [10, 20, 30, 30, 40, [1, 2, 3, 'hi']]
In [13]: 1.remove(30) #remove the 1st element if duplicate are there
Out[13]: [10, 20, 30, 40, [1, 2, 3, 'hi']]
In [15]: 1.pop()
Out[15]: [1, 2, 3, 'hi']
In [21]: 11=[10,20,30,40,40, 2,3, True, (1+2j)]
         11
Out[21]: [10, 20, 30, 40, 40, 2, 3, True, (1+2j)]
In [23]: 11.pop()
Out[23]: (1+2j)
In [25]: 11.pop()
Out[25]: True
In [27]: 11.pop()
Out[27]: 3
In [29]: 11.pop(4)
Out[29]: 40
In [35]: 11.pop(4)
```

```
Out[35]: 2
In [37]: print(1)
         print(l1)
        [10, 20, 30, 40]
        [10, 20, 30, 40]
In [39]: 1.pop(-1)
Out[39]: 40
In [41]: l.insert(50)
        TypeError
                                                 Traceback (most recent call last)
        Cell In[41], line 1
        ---> 1 l.insert(50)
       TypeError: insert expected 2 arguments, got 1
In [43]: 1
Out[43]: [10, 20, 30]
In [47]: 1.append(40)
In [49]: 1
Out[49]: [10, 20, 30, 40]
In [51]: l.insert(2,20)
In [53]: 1
Out[53]: [10, 20, 20, 30, 40]
In [55]: 1.remove(20)
In [57]: 1
Out[57]: [10, 20, 30, 40]
In [59]: 12=[]
         12
Out[59]: []
In [63]: 12.extend(11)
         12
Out[63]: [10, 20, 30, 40, 10, 20, 30, 40]
In [65]: print(1)
         print(l1)
         print(12)
```

```
[10, 20, 30, 40]
        [10, 20, 30, 40]
        [10, 20, 30, 40, 10, 20, 30, 40]
In [69]: 1.extend(1)
Out[69]: [10, 20, 30, 40, 10, 20, 30, 40, 10, 20, 30, 40, 10, 20, 30, 40]
In [75]: print(1)
        [10, 20, 30, 40, 10, 20, 30, 40, 10, 20, 30, 40, 10, 20, 30, 40]
Out[75]: [10, 20, 30, 40, 10, 20, 30, 40, 10, 20, 30, 40, 10, 20, 30, 40]
In [77]: 11.index(30)
         11
Out[77]: [10, 20, 30, 40]
In [79]: 1
Out[79]: [10, 20, 30, 40, 10, 20, 30, 40, 10, 20, 30, 40, 10, 20, 30, 40]
In [81]: 1.sort()
Out[81]: [10, 10, 10, 10, 20, 20, 20, 20, 30, 30, 30, 30, 40, 40, 40, 40]
In [83]: 1.sort(reverse=True)
Out[83]: [40, 40, 40, 40, 30, 30, 30, 20, 20, 20, 20, 10, 10, 10, 10]
In [85]: 13= [100 , 80 ,60]
         13
Out[85]: [100, 80, 60]
In [89]: 13.sort()
         13
Out[89]: [60, 80, 100]
In [91]: 13.sort(reverse=True)
         13
Out[91]: [100, 80, 60]
In [93]: i4=[1,2,3,4,'k', 1+5j] #similar types of values only possible
         i4.sort()
```

```
TypeError
                                                    Traceback (most recent call last)
         Cell In[93], line 2
               1 i4=[1,2,3,4,'k', 1+5j]
         ----> 2 i4.sort()
         TypeError: '<' not supported between instances of 'str' and 'int'</pre>
In [95]: 11
Out[95]: [10, 20, 30, 40]
In [97]: l1.reverse()
In [99]: 11
Out[99]: [40, 30, 20, 10]
In [101... | 11[::-1]
Out[101... [10, 20, 30, 40]
In [103... 11
Out[103... [40, 30, 20, 10]
In [105... l1.reverse()
          11
Out[105... [10, 20, 30, 40]
 In [ ]:
```