LIST

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

```
In [2]:  type(list1)
```

```
Out[2]:  list
```

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

```
Out[10]:  [10, 30, 60]
```

```
In [11]:  list3=[10.77,30.66,60.89]
          list3
```

```
Out[11]:  [10.77, 30.66, 60.89]
```

```
In [12]:  list4=["one","two","three","four"]
          list4
```

```
Out[12]:  ['one', 'two', 'three', 'four']
```

```
In [14]:  list5=["aman",9850,[50,20,70,0]]
          list5
```

```
Out[14]:  ['aman', 9850, [50, 20, 70, 0]]
```

```
In [16]:  len(list3)
```

```
Out[16]:  3
```

```
In [17]:  list4
```

```
Out[17]:  ['one', 'two', 'three', 'four']
```

```
In [18]:  list4[3]
```

```
Out[18]:  'four'
```

```
In [20]:  list5
```

```
Out[20]:  ['aman', 9850, [50, 20, 70, 0]]
```

```
In [21]:  list5[2][2]
```

```
Out[21]:  70
```

```
In [22]:  list3
```

```
Out[22]:  [10.77, 30.66, 60.89]
```

```
In [24]:  list3.count(10.77)
```

Out[24]:  1

```
In [25]:  list3[-1]
```

Out[25]:  60.89

list slicing

```
In [26]:  list4
```

Out[26]:  ['one', 'two', 'three', 'four']

```
In [27]:  list4[1:3]
```

Out[27]:  ['two', 'three']

```
In [30]:  list4[2:3]
```

Out[30]:  ['three']

```
In [31]:  list4[:]
```

Out[31]:  ['one', 'two', 'three', 'four']

Add,Remove,&Change items

```
In [32]:  list4
```

Out[32]:  ['one', 'two', 'three', 'four']

```
In [35]:  list4.append("five")
          list4
```

Out[35]:  ['one', 'two', 'three', 'four', 'five', 'five']

```
In [37]:  list4.insert(0,"zero")
          list4
```

Out[37]:  ['zero', 'one', 'two', 'three', 'four', 'five', 'five']

```
In [38]:  list4.pop()
```

Out[38]:  'five'

```
In [40]:  list4.reverse()
          list4
```

Out[40]:  ['zero', 'one', 'two', 'three', 'four', 'five']

```
In [41]:  del list4[5]
          list4
```

Out[41]:  ['zero', 'one', 'two', 'three', 'four']
```

```
In [42]:   list5
```

Out[42]:   ['aman', 9850, [50, 20, 70, 0]]

```
In [44]:   list5.clear()
           list5
```

Out[44]:   []

```
In [48]:   list4.index("one")
```

Out[48]:   1

Copy List

```
In [49]:   list4
```

Out[49]:   ['zero', 'one', 'two', 'three', 'four']

```
In [51]:   list9=list4.copy()
           list9
```

Out[51]:   ['zero', 'one', 'two', 'three', 'four']

```
In [52]:   list9[4]=4
           list9
```

Out[52]:   ['zero', 'one', 'two', 'three', 4]

Joint Lists

```
In [53]:   list4
```

Out[53]:   ['zero', 'one', 'two', 'three', 'four']

```
In [55]:   list7=["five","six","seven","eight"]
           list7
```

Out[55]:   ['five', 'six', 'seven', 'eight']

```
In [57]:   list6=list4+list7
           list6
```

Out[57]:   ['zero', 'one', 'two', 'three', 'four', 'five', 'six', 'seven', 'eight']

```
In [58]:   len(list6)
```

Out[58]:   9

List Membership

```
In [59]:   "seven"in list6
```

Out[59]:   True

```
In [60]: "ten"in list7
```

Out[60]:  False

```
In [61]: if "five"in list4:
             print("presentis present")
         else:
             print("five is not prresent")
```

five is not prresent

Revers and Sort List

```
In [62]: list7
```

Out[62]:  ['five', 'six', 'seven', 'eight']

```
In [64]: list7.reverse()
         list7
```

Out[64]:  ['five', 'six', 'seven', 'eight']

```
In [65]: list7=list7[::-1]
         list7
```

Out[65]:  ['eight', 'seven', 'six', 'five']

```
In [82]: list2
```

Out[82]:  [10, 50, 30, 50, 50, 50, 50, 50, 60]

```
In [79]: list2.insert(1,50)
         list2
```

Out[79]:  [10, 50, 30, 50, 50, 50, 50, 50, 60]

```
In [77]: list2.sort()
         list2
```

Out[77]:  [10, 30, 50, 50, 50, 50, 50, 60]

```
In [83]: list2.reverse()
         list2
```

Out[83]:  [60, 50, 50, 50, 50, 50, 30, 50, 10]

Loop use in List

```
In [86]: lista=(1,3,5,7,9,11,13,17)
         lista
```

Out[86]:  (1, 3, 5, 7, 9, 11, 13, 17)

```
In [87]: for i in lista:
             print(i)
```

```
1
3
5
7
9
11
13
17
```

In [92]:
```python
for i in enumerate lista:
    print(i)
```

```
  Cell In[92], line 1
    for i in enumerate lista:
                      ^
SyntaxError: invalid syntax
```

In [ ]:
```python
for i in enumerate lista:
```