In [1]:
```
l5 =[]
```

In [2]:
```
l5.append(10)
l5.append(25)
l5.append(2019)
l5.append('NIT')
l5.append(2+3j)
l5.append(True)
```

In [3]:
```
l5
```

Out[3]:
```
[10, 25, 2019, 'NIT', (2+3j), True]
```

In [4]:
```
len(l5)
```

Out[4]:
```
6
```

In [5]:
```
for i in l5:
    print(i)
```

```
10
25
2019
NIT
(2+3j)
True
```

In [6]:
```
l5
```

Out[6]:
```
[10, 25, 2019, 'NIT', (2+3j), True]
```

In [7]:
```
l5.remove(2+3j) # Remove function in list used to remove particular item from 
#Remove option used to remove first occurance from the list
```

In [8]:
```
l5
```

Out[8]:
```
[10, 25, 2019, 'NIT', True]
```

In [9]:
```
l5.append(10)
```

In [10]:
```
l5
```

Out[10]:
```
[10, 25, 2019, 'NIT', True, 10]
```

In [11]:
```
l5.remove(10)
```

In [12]:
```
l5
```

Out[12]:
```
[25, 2019, 'NIT', True, 10]
```

In [13]:
```
l6 = l5.copy()
```

In [14]:
```
l6
```

Out[14]:
```
[25, 2019, 'NIT', True, 10]
```

In [15]:
```
#Pop function used to remove the last index from the list by default and user
l6.pop()
```

Out[15]:
```
10
```

In [16]:
```
l6
```

Out[16]:
```
[25, 2019, 'NIT', True]
```

In [17]:
```
l6.pop(2)
```

Out[17]:
```
'NIT'
```

In [18]:
```
l6
```

Out[18]:
```
[25, 2019, True]
```

In [19]:
```
l5
```

Out[19]:
```
[25, 2019, 'NIT', True, 10]
```

In [20]:
```
l6.append(5.6)
l6.append('nit')
```

In [21]:
```
l6.append(True)
l6.append(False)
l6.append(10+12j)
```

In [22]:
```
l6
```

Out[22]:
```
[25, 2019, True, 5.6, 'nit', True, False, (10+12j)]
```

In [23]:
```
l6[:] #Slicing
```

Out[23]:
```
[25, 2019, True, 5.6, 'nit', True, False, (10+12j)]
```

In [24]:
```
l6[::-1]
```

Out[24]:
```
[(10+12j), False, True, 'nit', 5.6, True, 2019, 25]
```

In [25]:
```
l6[0]
```

Out[25]:
```
25
```

In [26]:
```
l6[0]= 100
```

In [27]:
```
l6
```

Out[27]:
```
[100, 2019, True, 5.6, 'nit', True, False, (10+12j)]
```

In [28]:
```
l6[-1]
```

Out[28]:
```
(10+12j)
```

In [29]:
```
l6[10]
```

```
---------------------------------------------------------------------------
IndexError                                Traceback (most recent call last)
Cell In[29], line 1
----> 1 l6[10]

IndexError: list index out of range
```

In [30]:
```
l6[0:10:2]
```

Out[30]:
```
[100, True, 'nit', False]
```

In [31]:
```
l6.count(10) #Count gives the number of occurances of 10
```

Out[31]:
```
0
```

In [33]:
```
l6[7] = 10
```

In [34]:
```
l6
```

Out[34]:
```
[100, 2019, True, 5.6, 'nit', True, False, 10]
```

In [35]:
```
l6.count(10)
```

Out[35]:
```
1
```

In [36]:
```
l5
```

Out[36]:
```
[25, 2019, 'NIT', True, 10]
```

In [37]:
```
l6
```

Out[37]:
```
[100, 2019, True, 5.6, 'nit', True, False, 10]
```

In [46]:
```
l7 = ['a','b','c']
```

In [47]:
```
l8 = ['x','y','z']
```

In [48]:
```
l8.extend(l7)
```

In [49]:
```
l8
```

Out[49]:
```
['x', 'y', 'z', 'a', 'b', 'c']
```

In [50]:
```
l7.extend(l8)
```

In [51]:
```
l7
```

Out[51]:
```
['a', 'b', 'c', 'x', 'y', 'z', 'a', 'b', 'c']
```

In [52]:
```
l6
```

Out[52]:
```
[100, 2019, True, 5.6, 'nit', True, False, 10]
```

In [53]:
```
l6.index(True)
```

Out[53]:
```
2
```

In [57]:
```
l6.reverse() # Reverses the list values
```

In [58]:
```
l6
```

Out[58]:
```
[10, False, True, 'nit', 5.6, True, 2019, 100]
```

In [61]:
```
l6.insert(3,29)
```

In [62]:
```
l6
```

Out[62]:
```
[10, False, True, 29, 'nit', 5.6, True, 2019, 100, 3]
```

In [65]:
```
l10_=[33,5,82,1,0,-4,550,-7]
```

In [66]:
```
l10_.sort()
```

In [67]:
```
l10_
```

Out[67]:
```
[-7, -4, 0, 1, 5, 33, 82, 550]
```

In [68]:
```
l10_.sort(reverse = True)
```

In [69]:
```
l10_
```

Out[69]:
```
[550, 82, 33, 5, 1, 0, -4, -7]
```

In [ ]:
```

```