In [2]:
```
l=[]
l
```

Out[2]: []

In [3]:
```
l.append(7)
l.append(5)
l.append(67)
l.append(24)
l.append(468)
```

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

Out[4]: [7, 5, 67, 24, 468]

In [5]:
```
l[0]
```

Out[5]: 7

In [6]:
```
l[-1]=-50
```

In [7]:
```
l
```

Out[7]: [7, 5, 67, 24, -50]

In [8]:
```
l1=l.copy()
```

In [9]:
```
l1
```

Out[9]: [7, 5, 67, 24, -50]

In [10]:
```
print(l)
print(l1)
```

```
[7, 5, 67, 24, -50]
[7, 5, 67, 24, -50]
```

In [11]:
```
l==l1
```

Out[11]: True

In [18]:
```
id(l)==id(l1)#address
```

Out[18]: False

In [13]:
```
id(l)!=id(l1)
```

Out[13]: True

In [14]:
```
l.count(20)
```

Out[14]: 0

In [15]:
```
l1
```

Out[15]: [7, 5, 67, 24, -50]

In [16]:
```
l1.clear()
```

In [17]:
```
l1
```

Out[17]: []

In [19]:
```
del l1 #used to delete the created object
```

In [20]:
```
l1
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
Cell In[20], line 1
----> 1 l1

NameError: name 'l1' is not defined
```

In [21]:
```
l
```

Out[21]: [7, 5, 67, 24, -50]

In [22]:
```
# creating a mix datatype
l2=[]
```

In [23]:
```
l2.append(9)
l2.append('selen')
l2.append(True)
l2.append(1+4j)
l2.append(5.77)
```

In [24]:
```
print(l)
print(l2)
```

```
[7, 5, 67, 24, -50]
[9, 'selen', True, (1+4j), 5.77]
```

In [25]:
```
l.index(67)
```

Out[25]: 2

In [26]:
```
l2
```

Out[26]: [9, 'selen', True, (1+4j), 5.77]

In [27]:
```
l2[1]
```

Out[27]: 'selen'

In [29]:
```
l2[1][0]# nested indexing
```

Out[29]: 's'

In [30]:
```
print(l2[1][0])
```

```
s
```

In [31]:
```
print(l2[1][0])
print(l2[1][1])
```

```
s
e
```

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

Out[32]: [7, 5, 67, 24, -50]

In [33]:
```
l[:]
```

Out[33]: [7, 5, 67, 24, -50]

In [34]:
```
l[3:]
```

Out[34]: [24, -50]

In [35]:
```
l[:2]
```

Out[35]: [7, 5]

In [36]:
```
l[:10]
```

Out[36]: [7, 5, 67, 24, -50]

In [40]:
```
l[0:4:3]#strp slicing
```

Out[40]: [7, 24]

In [39]:
```
l2[1:6:2]
```

Out[39]: ['selen', (1+4j)]

In [43]:
```
l.insert(2,15)# 2 is index position and 15 is the called avalue
```

In [53]:
```
l
```

Out[53]: [7, 5]

In [51]:
```
l.pop()
```

Out[51]: 15

In [52]:
```
l
```

Out[52]: [7, 5]

In [54]:
```
l.append(5)
l.append(25)
l.append(90)
```

In [55]:
```
l
```

Out[55]: [7, 5, 5, 25, 90]

In [56]:
```
l.pop()
```

Out[56]: 90

In [57]:
```
l
```

Out[57]: [7, 5, 5, 25]

In [58]:
```
l.pop(3)
```

Out[58]: 25

In [59]:
```
l
```

Out[59]: [7, 5, 5]

In [60]:
```
l.count(5)
```

Out[60]: 2

In [61]:
```
l.sort()
```

In [62]:
```
l
```

Out[62]: [5, 5, 7]

In [63]:
```
l2.pop()
```

Out[63]: 5.77

In [64]:
```
l2.pop(3)
```

Out[64]: (1+4j)

In [65]:
```
l2
```

Out[65]: [9, 'selen', True]

In [ ]: