

```
In [3]: list1=[1,2,3,4,5]#list have square brackets
list1 [1:3]
```

```
Out[3]: [2, 3]
```

```
In [27]: del list1 [0]
print(list1)#deleting the list

[]
```

```
In [6]: list1.append(9)
print(list1)#append the list by using .append

[1, 2, 3, 9]
```

```
In [7]: print(len(list1))#length of list

4
```

```
In [8]: tup1=(1,2,3,4,5)
tup2=('apple','bnana','mango')#tuple uses preanthesis
print(tup2.index('bnana'))#.index is used for finding the index

1
```

```
In [11]: tup2[1:]
```

```
Out[11]: ('bnana', 'mango')
```

```
In [12]: tup1[:1]
```

```
Out[12]: (1,)
```

```
In [14]: print (tup1[0]) #to know the index of [0] term in tuple

1
```

```
In [15]: print (tup2[1])

bnana
```

```
In [16]: tup3=tup1+tup2
print(tup3)#performing addition operation

(1, 2, 3, 4, 5, 'apple', 'bnana', 'mango')
```

```
In [17]: tup1*2#performing multiplication
```

```
Out[17]: (1, 2, 3, 4, 5, 1, 2, 3, 4, 5)
```

```
In [18]: tup2*2
```

```
Out[18]: ('apple', 'bnana', 'mango', 'apple', 'bnana', 'mango')
```

```
In [20]: tup1+tup1
```

```
Out[20]: (1, 2, 3, 4, 5, 1, 2, 3, 4, 5)
```

```
In [21]: del tup1[3]
print(tup1)#tuple doesn,t support deletion as it is immutable
```

```
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---
TypeError                                Traceback (most recent call la
st)
<ipython-input-21-8d45d2aa0b79> in <module>
----> 1 del tup1[3]
      2 print(tup1)

TypeError: 'tuple' object doesn't support item deletion
```

```
In [28]: mydict={
          'apple':'fruit',
          'ladyfinger':'vegetable',
          'rose':'flower'
          } #dictionary is paired and it uses
the curly brackets
print(mydict)

{'apple': 'fruit', 'ladyfinger': 'vegetable', 'rose': 'flower'}
```

```
In [29]: del mydict['rose']#deleting an element from dictionary
print(mydict)

{'apple': 'fruit', 'ladyfinger': 'vegetable'}
```

```
In [37]: mydict['apple']='new value' #adding new value to dictionary
print(mydict)

{'ladyfinger': 'vegetable', 'apple': 'new value'}
```

```
In [38]: mydict.clear()
print (mydict)#dictionary elements are cleared

{}
```