## data structure for python

## **LIST**

```
In [1]: | 1=[]
Out[1]: 1
In [2]: 1
Out[2]: []
In [3]: type(1)
Out[3]: list
In [4]: len(1)
Out[4]: 0
In [5]: id(1)
Out[5]: 1999337488128
In [6]: 1.append()
       TypeError
                                                 Traceback (most recent call last)
       Cell In[6], line 1
       ----> 1 l.append()
      TypeError: list.append() takes exactly one argument (0 given)
In [ ]: 1.append(10)
In [ ]: 1
In [ ]: len(1)
In [ ]: 1.append(46)
        1.append(34)
In [ ]: 1
In [ ]: m=[]
```

```
In [ ]: type(m)
In [ ]: m.append(23)
        m.append(39)
        m.append(42)
        m.append(77)
In [ ]: m
In [ ]: len(m)
In [ ]: m
In [ ]: m1 = m.copy()
In [ ]: m == m1
In [ ]: m != m1
In [ ]: m1.append(100)
In [ ]: m1
In [ ]: | m == m1
In [ ]: m != m1
In [ ]: print(len(m))
        print(len(m1))
In [ ]: print(m)
        print(m1)
In [ ]: m.clear()
In [ ]: m
In [ ]: m1
In [ ]: m1.append(2.3,4)
In [ ]: m.append(23)
        m.append(30)
        m.append(40)
In [ ]: m
```