**List**

*#Empty List*y=[]  
x=list()  
print(y)  
print(x)  
*#concatenation*x=[**'a'**,**'hello'**,56,100.10]  
y=[**'d'**]  
print(x+y)  
*#repetition*print(x\*3)  
*#slicing*print(x[1:-1])  
*#indexing*print(x[-1])  
*#appending*print(x.append(**'Hello'**))  
print(x)  
*#extend*x.extend([**'c'**,**'d'**])  
print(x)  
  
*#insert*x.insert(1,**'Nielit'**)  
print(x)  
*#pop*print(x.pop(0))  
print(x)  
*#To show List-Mutable Python Object*print(x)  
m=x+[**'xyz'**]  
print(m)*#concatenation*print(id(m))  
print(x)  
print(id(x))  
print(x.append(**'xyz'**))*#appending*print(x)  
print(id(x))

**Dictionary**

*#Dictionary-Methods  
#accessing dictionary*dict={1:**'apple'**,2:**'mango'**}  
print(dict[2])  
print(len(dict))  
*#keys*print(dict.keys())  
*#values*print(dict.values())  
*#items*print(dict.items())  
*#get*print(dict.get(2))  
*#update*print(dict.update({3:**'grapes'**}))  
print(dict)  
*#pop*print(dict.pop(3))  
print(dict)

**SET**

x={1,2,3,3,3,**'b'**}  
print(x)  
*#union*y={1,**'b'**,**'c'**}  
print(x|y)  
*#intersection*print(x&y)  
*#difference*print(x-y)  
print(y-x)  
  
*#symmetric difference*print(x^y)

**Additional Examples**

list = [ 'abcd', 786 , 2.23, 'john', 70.2 ]

tinylist = [123, 'john']

print (list) # Prints complete list

print (tinylist \* 2) # Prints list two times

print (list + tinylist) # Prints concatenated lists

print (list[0]) # Prints first element of the list

print (list[1:3]) # Prints elements starting from 2nd till 3rd

print (list[2:]) # Prints elements starting from 3rd element