

List in Python.

List is an vardexed, mutable, heterogenous collection of fython objects.

Ordered: The sequence of items is preserved.

Mutable: Updates the existing object (changeable)

Heterogenous: can hold mutable, immutable objects.

Lets start of with creation of list

A list is denoted using [] (square brackets)

Yxample:

my_list = [10, 20,30]. Il using square brackets
my_list = list ((10,20,30)) Il using constructor.

empty-list = [] Il empty list

Accessing elements in a list

As list is a Sequence, we can access list items using indexing.

my list [0] // 10 my list [1] // 20



Just like tuples, we can perform slicing on list print (my_list[0:2]) 11 [10, 20]

Mutability.

As list is a mutable Object - it can be modified.

my_list[0] = 50

print (my_list) 1/ [50,20,30]

As list is a mutable object, it comes with various methods.

Adding Elements.

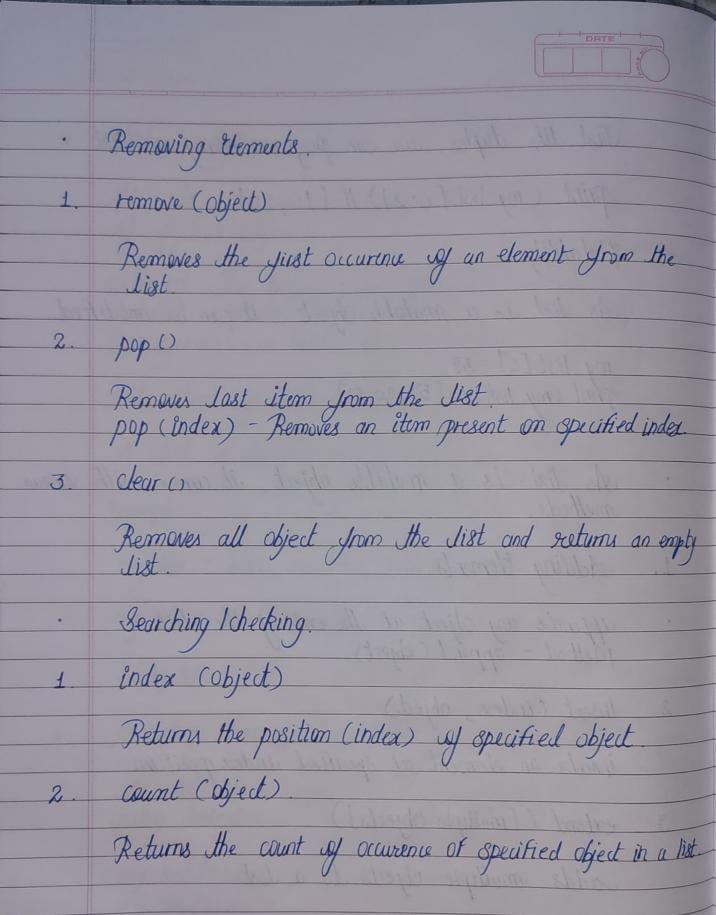
Appends any object at the end of the list. Method - append (object).

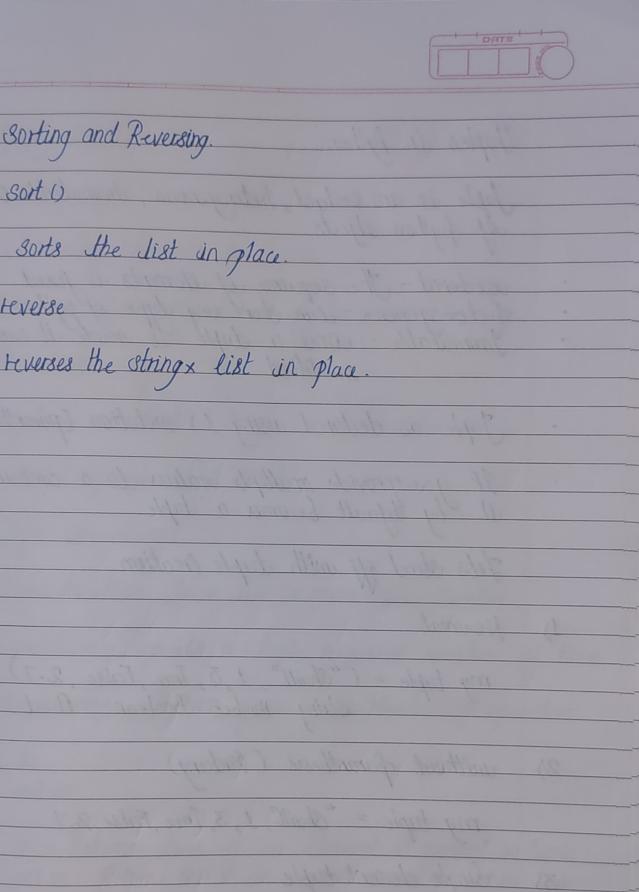
insext (index, object)

insuts an element at specified index position

extend ([multiple objects])

adds multiple objects to a list





Sorting and Reversing.

30rts the list in place.

Sort ()

Heverse.