## Copy

## copy.copy(x):

It is known as shallow copy. Let us know why it is said as shallow copy

```
lets take an example L = [10, 20, 30, 40, 50]
```

- If you want to copy L in L1. Then L1 will be holding the same object.
- L1 will create the new list is created but it will not create objects of the L

```
>>> import copy

>>> L = [10,20,30,40,50]

>>> L1 = copy.copy(L)

>>> L1

[10, 20, 30, 40, 50]

>>>

>>> id(L)

140302108233664

>>> id(L1)*

140302108131392

>>>

>>> id(L[0])

140302061017680

>>> id(L1[0])

140302061017680
```

- If we check the id for L and L1 (list) it is different cause both are different List. But if we check the id of a particular object using indexing the id will be the same for L1 and L
- So it has shallowed copied it

## copy.deepcopy( x )

- This is also said as recursive copy (copy of list then sublist than sublist than sublist .... So on)
- In this deep copy it will create the L1 (list) and it will create an object(numbers) too. This is like real duplicate
- By this deep copy will not work for int , float , string , complex etc .... It will works with classes , objects , functions ..