

Lab 2

3. A conditional expression is of the form
 $\langle \text{expr1} \rangle$ if condition else $\langle \text{expr2} \rangle$

They are a concise method to make conditional statement in a single line.

They are similar to ternary operator in C++.

6. The `chr()` function returns a string of one character whose Unicode integer was passed as an argument.

Eg: `chr(97)` would return 'a'

The `ord()` function returns the Unicode integer representation of the character passed to it as an argument.

10. ~~In a shallow copy references to the~~

→ When creating a shallow copy of a collection object references to the child objects of the original are stored in the new collection object.

→ During Deep copy, all child objects are also cloned in the new collection object. The new collection object will be independent here.

Eg: `list1 = [1, 2, 3]`
`list2 = list1`

This is a shallow copy.

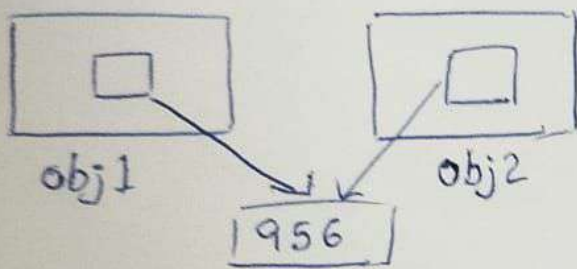
`list2[2] = 1`

`print(list1[2])` will display 1.

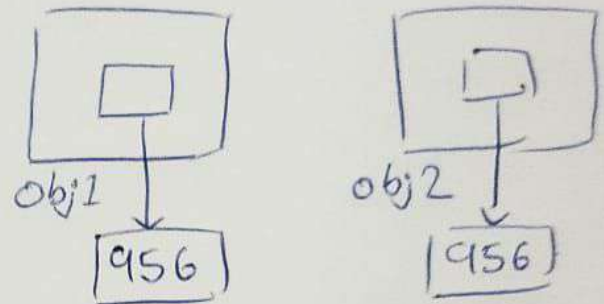
Making changes to new elements of new list is also changing original. (Also versa).

To create deep copy we must do `list2 = list[:]` here.

→ Deepcopy is relatively slower than shallow copy as it needs to clone child objects.



Shallow copy



Deep copy