

Data type in Python ...

Objects and Mutability

groupthing in Sython is an object

When we say anything as an object, then it must have some properties.

So every Object Will have a unique identity givery object Will also have a unique type gach object will have a value

\* Mutable and Immutable

Mutable → that is changeable. Immutable → that is met changeable

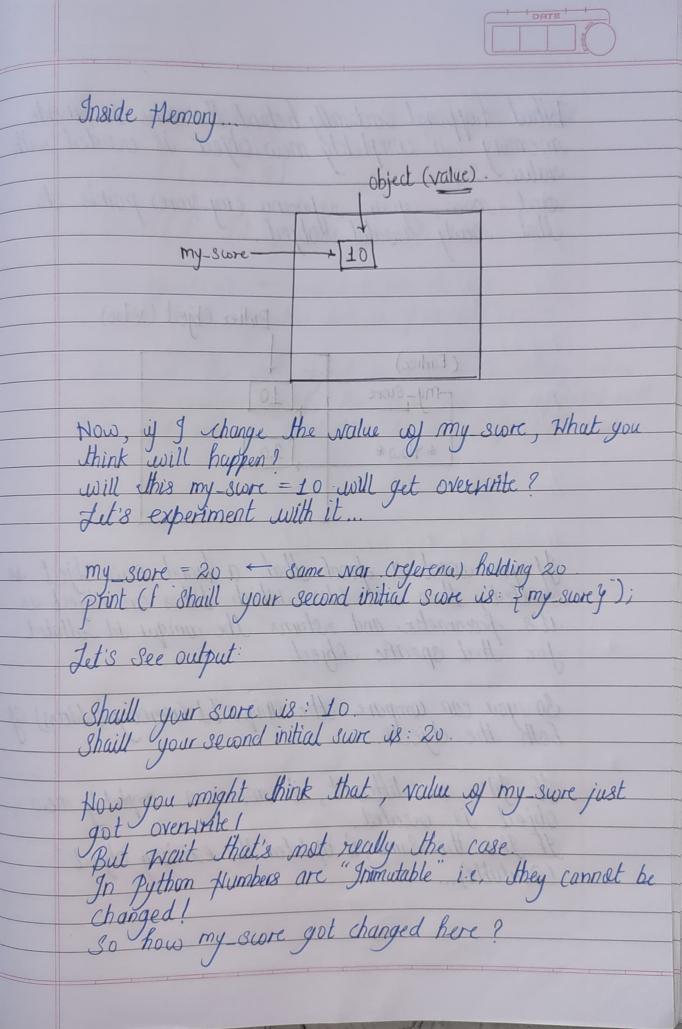
Mutability is checked with ID and mot the Nature.

If identity is same the value didn't got changed. If the identity is different, the value got changed.

For Example:

my score = 10 \( \tau \text{ a war holding value 10} \)

print (f "shaill your score is: \( \frac{2}{3} \) my score \( \frac{2}{3} \));





What happened actually behind the same is, inside memory a completely new object is created with value 20.

And now, your reference (my-score) points to that newly created object.

Earlier Object (Volue)

(Earlier)

-my\_Store

10

\* Now\*

20

If you want a smoot that a brand new object is Gerated, then use id which takes an object as it's farameter and returns the unique id alloted for that specific object.

So you can compare the unique Id (memory address) of both the objects.

If Id's ore different, it means a completely new object is vicated.

If It's the Same, it updated the existing object (Mutuble)...



Now, lets take an example of Mutating Object

18 = [1, 2, 3, 4]

print (F "Id uy this list is": {id(15)});

18. append (5); 
added 5 into the list...

print (F"Id up this list is: \( \gamma \) id (\( \lambda \rangle \gamma');

Now as the list object is a mutable entity, which updates existing object, this list will get updated with 5, and when we print it's Id, It will print the same Id.

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