tuple

A tuple is a collection which is ordered and unchangeable

```
tuple = ("apple", "banana", "-
cherry", "orange", "kiwi", "mel-
on", "mango")
print(thistuple)
print(thistuple[1]) =>"banana"
print(thistuple[-1]) =>"mango"
print(thistuple[2:5]) =>"cherry
... kiwi"
print(thistuple[-4:-1]) =>('or-
ange', 'kiwi', 'melon')
--------------------convert----
--------------
x = ("apple", "banana", "che-
rry")
y = list(x)
y[1] = "kiwi"
x = tuple(y)
--------------------loop-------
-----------
thistuple = ("apple", "banana",
"cherry")
for x in thistuple:
  print(x)
--------------------test-------
-----------
thistuple = ("apple", "banana",
"cherry")
if "apple" in thistuple:
  print("Yes, 'apple' is in the
fruits tuple")
--------------------len-------
--------------
thistuple = ("apple", "banana",
"cherry")
print(len(thistuple))
--------------------del-------
--------------
thistuple = ("apple", "banana",
"cherry")
del thistuple
--------------------jointupl-
es-------------
```

tuple (cont)

```
tuple1 = ("a", "b" , "c")
tuple2 = (1, 2, 3)
tuple3 = tuple1 + tuple2
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----------------------
thistuple = (1, 3, 7, 8, 7, 5,
4, 6, 8, 5)
x = thistuple.count(5) =>nb of
repetiton of 5
x = thistuple.index(8)=>3 is the
first location of 8
```

sets

A set is a collection which is unordered and unindexed

```
thisset = {"apple", "banana", "-
cherry"}
print(thisset)
----------------------------
----------------
for x in thisset:
  print(x)
------------------check--------
------------------
print("banana" in thisset)=>true
or false
--------------------add-----
------------------
thisset.add("orange")
thisset.update(["orange", "man-
go", "grapes"])=>add more than
one
----------------len---------
---------------
print(len(thisset))
-------------remove---------
-------------
thisset.remove("banana")
or
thisset.discard("banana")
```

sets (cont)

```
--------------pop----------
--------------
x = thisset.pop()=>remove the
last elet
--------------clear--------
--------------
thisset.clear()=> empty the set
----------------del------------
-----------
del thisset
--------------joinset-------
--------------
set1 = {"a", "b" , "c"}
set2 = {1, 2, 3}
set3 = set1.union(set2)
-------------update-------------
---------
set1 = {"a", "b" , "c"}
set2 = {1, 2, 3}
set1.update(set2)=>add set2 to
set1
```