Tuples In Python By Sudhanshi tup=(12,36,70,46,"Python is a dynamic programming language") In [8]: type(tup) Out[8]: tuple Note 1: In Tuple parenthesis are optional In [9]: tup=12,36,70,46,"Python is a dynamic programming language" print(tup) (12, 36, 70, 46, 'Python is a dynamic programming language') Tuples are immutable In [11]: tup=12,24,36,48,60,59.5,82.9,"Hello world" In [12]: tup[1]=25 Traceback (most recent call last) <ipython-input-12-8f1ddc1b0c4c> in <module> ----> 1 tup[1]=25 TypeError: 'tuple' object does not support item assignment List are mutable In [13]: List= [23,42,54,67,82,94,62] In [14]: List[3]=26 In [15]: print(List) [23, 42, 54, 26, 82, 94, 62] Note 2: We can use comma with single value In [16]: var=(9) type(var) Out[17]: int In [18]: var=(9,) In [19]: type(var) Out[19]: tuple Note 3:Tuples are immutable in nature, a nested object can be changed tup=12,36,70,46,[2,4,6,8,10,12] In [21]: tup[4][2]=16 print(tup) (12, 36, 70, 46, [2, 4, 16, 8, 10, 12]) Note 4: String and Tuple uses sorted() method In [23]: nums=(12,12.5,38,24,24.5,36,36.5,48,48.5) In [24]: nums.sort() Traceback (most recent call last) **AttributeError** <ipython-input-24-67d6476de4e1> in <module> ----> 1 nums.sort() AttributeError: 'tuple' object has no attribute 'sort' In [25]: sorted(nums) Out[25]: [12, 12.5, 24, 24.5, 36, 36.5, 38, 48, 48.5] Note 5: We can't use list method in tuples because tuples are immutable in nature In [26]: # Insert tup= (12,36,8,9,3,7,58) In [27]: tup.insert(3,18) AttributeError Traceback (most recent call last) <ipython-input-27-eb987582fcc5> in <module> ----> 1 tup.insert(3,18) AttributeError: 'tuple' object has no attribute 'insert' In [28]: print(tup) (12, 36, 8, 9, 3, 7, 58) Note 6: Operations in Tuple In [29]: #Concatenate tup1=(3,6,9,8,10,5) tup2=('Three','Six','Nine','Eight','Ten','Five') In [30]: tup3=tup1+tup2 print(tup3) (3, 6, 9, 8, 10, 5, 'Three', 'Six', 'Nine', 'Eight', 'Ten', 'Five') In [31]: #Length len(tup3) Out[31]: 12 In [32]: #Repetition nums=5, 10, 14, 20 In [33]: nums*3 Out[33]: (5, 10, 14, 20, 5, 10, 14, 20, 5, 10, 14, 20) In [34]: #Membership 10 **in**(5, 10, 14, 20) Out[34]: True In [35]: #Slicing tup=("Learn", "Python", "With", "Sudhanshi", 12, 36, 70, 46) tup[4:] tup[:-4] Out[35]: ('Learn', 'Python', 'With', 'Sudhanshi')

In [36]:

In []:

#Delete
del(tup)
print(tup)

1 #Delete
2 del(tup)
----> 3 print(tup)

<ipython-input-36-c3013e7fb0cd> in <module>

NameError: name 'tup' is not defined

Traceback (most recent call last)