

Difference between List, Tuple, Set & Dictionary

S.no	List	Tuple	Set	Dictionary
1	A list is comma-separated values (items) between square brackets . Lists might contain items of different types, but usually the items all have the same type.	Collection of values(items) of any data type	Unordered collection with no duplicate elements.*	A Python dictionary contains key: value pairs just like a real-world dictionary has word and its meaning pair
2	Example : X = ['a', 2, True, 'b']	Example: X=('a',2,True,'b')	Example: X={'a',2,True,'b'}	Example : X= {1:'Jan', 2:'Feb', 3:'Mar'}
3	are a mutable type, i.e. it is possible to change their content	are immutable	Set itself is mutable	dictionary is mutable
4	Can be indexed & sliced	Indexing support	Not indexed	Indexing supported
5	Function : list() for single value list() for multiple values	Function : tuple() for single value tuple() for multiple values	Function : set()	Function : dict()

* Output of the **set** follows below sequence if we have numeric & character data types:

numbers are displayed first in ascending order & after that characters also in ascending order.