

LIST	TUPLE	SETS	dictionary
List is a data structure which can hold multiple values	Tuple is a data structure which can hold multiple values	Set is a data structure which can hold multiple values	Dictionary is a data structure which can hold multiple values
It can be defined using <code>[]</code> or <code>list()</code> <code>`lst = [1,2,3,4]</code> <code>lst2 = list((1,2,3,4))'</code>	It can be defined using <code>()</code> or <code>list()</code> <code>`tup= [1,2,3,4]</code> <code>tup2= tuple((1,2,3,4))'</code>	It can be defined using <code>{}</code> or <code>set()</code> <code>`set1= {1,2,3,4}</code> <code>set2 = set((1,2,3,4))'</code>	The values are stored in a key value pair It can be defined using <code>()</code> or <code>dict()</code> <code>`dict1= ("Name":"Tom","age":23)</code> <code>lst2 = list((1,2,3,4))'</code>
It can be a collection of different data types <code>list1 = [1,"hi",2.5,False]</code>	It can be a collection of different data types <code>tup2= (1,"hi",2.5,False)</code>	It can be a collection of different data types <code>set1= {1,"hi",2.5,False}</code>	It can be a collection of different data types <code>list1 = [1,"hi",2.5,False]</code>
It can be accessed by indexing and is ordered <code>print(list1[2]) ---->2.5</code>	It can be accessed by indexing and is ordered <code>print(tup2[2]) ---->2.5</code>	It cannot be accessed by indexing and is unordered <code>print(set2[2]) ---->error</code>	It can be accessed by indexing and is in order <code>print(list1[2]) ---->2.5</code>
We can modify the values of the list using indexing- mutable <code>list1[3]="hello"----->[1,"hi",-2.5,"Hello"]</code>	We cannot modify the values of the tuple using indexing- immutable <code>tup2[3]="hello"----->error</code>	We can modify the values of the list using iteration- mutable	We can modify the values of the list using indexing- mutable <code>list1[3]="hello"----->[1,"hi",-2.5,"Hello"]</code>



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