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| |  |  |  |  | | --- | --- | --- | --- | | **List** | **Tuple** | **Set** | **Dictionary** | | List is a non-homogeneous data structure which stores the elements in single row and multiple rows and columns | Tuple is also a non-homogeneous data structure which stores single row and multiple rows and columns | Set data structure is also non-homogeneous data structure but stores in single row | Dictionary is also a non-homogeneous data structure which stores key value pairs | | List can be represented by [ ] | Tuple can be represented by  ( ) | Set can be represented by { } | Dictionary  can be represented by { } | | List allows duplicate elements | Tuple allows duplicate elements | Set will not allow duplicate elements | Set will not allow duplicate elements but keys are not duplicated | | List can be created using **list()** function | Tuple can be created using **tuple()** function. | Set can be created using **set()** function | Dictionary can be created using **dict()** function. | | List is mutable i.e we can make any changes in list. | Tuple  is immutable i.e we can not make any changes in tuple | Set is mutable i.e we can make any changes in set. But elements are not duplicated. | Dictionary is mutable. But Keys are not duplicated. | | List is ordered | Tuple is ordered | Set is unordered | Dictionary is ordered | | Creating an empty list  l=[] | Creating an empty Tuple  t=() | Creating a set  a=set()  b=set(a) | Creating an empty dictionary  d={} | |