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| **List** | **Tuple** | **Set** | **Dictionary** |
| Mutable , syntax [1,2,3] | Immutable , syntax – (1,2,3) | Immutable – {1,2,3} or set() | Value in dict is mutable |
| Allows duplicate elements | Allows duplicate elements | Not allows duplicates, we can add or remove items from it | Not allowed duplicate keys |
| Access elements with index , negative indexing ,slicing | Access elements with index , negative indexing,slicing | These are un ordered so index will not work | Access elements from keys |
| Change elements  Lst[2:3] =[ “Chandr”] | Can not change elements like list | Can not change elements | Change elements based on key |
| Append – used to add one element | We can not append elements | Add – used to add one element | Assign value for new key it will add data |
| Extend – used to add multiple elements to list | We can club two tuples like tuple1 + tuple2 | Update – used to add multiple elements |  |
| Del lst[0] - to delete particular item from list | We can not delete particular item with index  We can delete complete tuple , del tuple | We can not delete item with index | Del dict[key]  Del dict – to delete complete dictionary |
| Remove – to remove particular item from list | We have just count,index methods | We can use remove or discard method to remove items , discard will not throw exception if item not found |  |
| Pop() – removes the last item and return the item  Pop(index) – removes the particular item from index |  |  | Pop(key) – removes item and returns value  Popitem(key) – remove item  Returns key,value |
| Insert – to insert item at specified index |  |  |  |
| Clear() – it clears records from list |  | Clear – it clears records from set |  |
|  |  | Union – it combines two sets and gives without duplicates  a.union(b)  a|b |  |
|  |  | Intersection – it gives common elements in both  a.intersection(b)  a&b |  |
|  |  | Difference –  a.difference(b)  a-b  it gives elements from a which are not common in b |  |
|  |  | symmetric\_difference – this gives elements from both which are not common   1. symmetric\_difference(b)   a^b |  |
|  |  | Frozenset - to make it to work like tuple , add and update will not work  A= frozenset([1,2,3]) |  |