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**SET**

Sets are used to store multiple items in a single variable.

A set is a collection which is unordered, unchangeable\*, and unindexed.

Sets cannot have two items with the same value.

Set items can be of any data type:

## Python Frozen Sets

**Frozen sets** in Python are immutable objects that only support methods and operators that produce a result without affecting the frozen set or sets to which they are applied. It can be done with frozenset() method in Python.

While elements of a set can be modified at any time, elements of the frozen set remain the same after creation.

### **Union operation on Python Set**

wo sets can be merged using union() function or | operator. Both Hash Table values are accessed and traversed with merge operation perform on them to combine the elements, at the same time duplicates are removed. The Time Complexity of this is **O(Len(s1) + Len(s2))** where s1 and s2 are two sets whose union needs to be done.

**Python List Slicing**

list slicing is a common practice and it is the most used technique for programmers to solve efficient problems. Consider a Python list, in order to access a range of elements in a list, you need to slice a list. One way to do this is to use the simple slicing operator i.e. colon(:).

Syntax: - Lst**[** Initial **:** End **:** IndexJump **]**









