

- when you need an unchangeable collection of items.
- to store unique, hashable values securely.
- frozen sets are immutable versions of sets.

Output :

Student 1:

name : Alice

age : 22

Student 2:

name : Bob

age : 21

Student 3:

name : Charlie

age : 23

Day 11

16/07/2025

What is set in python?

- unordered collection of unique elements.
- It does not allow duplicate values.
- mutable (modifiable)
- Sets do not maintain order like lists.

Tuples:

Key Features:

- unordered
- unique
- mutable
- Set operations.

Access set items:

ex: my_set = {1, 2, 3, 4, 5}

Print (my_set) : {1, 2, 3, 4, 5}

Access set items:

- since unordered, you cannot access elements.

- you can check if an element exists

in a set.

Add set items:

- add() - add elements

- update() - multiple elements.

Remove set items:

- remove() - raises an error if the item is not found.

- discard() - does not raise an error, if the item is missing.

Fruits = {"apple", "bananas", "cherry"}

Fruits.remove("bananas")

Output: {"apple", "cherry"}

Fruits.discard("grape")

No error, if "grape" is not found.

- To remove all elements, use clear()

- To delete the set completely, use del:

Fruits.clear() # empties set

Fruits # deletes the set

Join sets:

Join two sets by `union()`, `update()`

new set:

set 1 = union (set 2)

Print (new set)

output : {1, 2, 3, 4, 5}

update modifies set 1

set 1. update (set 2) print (set 1)

output : {1, 2, 3, 4, 5}

Other set operations:

- Intersection (`&`) - common elements

- Difference (`-`) - elements in set 1 but not in set 2.

- Symmetric Difference (`^`) - elements in either set, but not both.

loop sets:

Sets are iterable, you can loop through them using a for loop.

frozen sets:

immutable set, you cannot add (or) remove elements after creating it.

Ex: frozen_set = frozenset ("apple", "banana", "cherry")

print (frozen_set) # output :

frozenset {'apple', 'banana', 'cherry'}

update()

- When you need an unchangeable collection of items
- go for unique, hashable values securely.
- frozen sets are immutable versions of sets.

set 1 but

in set 2 -

in either

not both.

loop through them

add (or) remove

"", "bananas", "cherry"

"", "banana", "cherry"