**Total methods of data types**

* **Set**
* **Set methods**
* **Set operations**
* **Frozen set**

**Set**

* A set is a collection which is unordered and unindexed.
* Un order means set doesn’t have a order.
* Set items can apper in a different order
* Inside a curly braces { }

**Set methods**

Add ()

Clear ()

Copy()

Pop()

Remove()

Update ()

Sets\_topic.py

Sunny = { }

Print (type(sunny))

Sunny={1,2,3,4}

Print(type(sunny))

Sunny = {1,2,3,4}

Sunny[0] =12

Print (sunny)

Sunny ={3,53,23,514,6134,1,5,321}

Print(sunny)

Set duplicate

Sunny= {1,1,1,2,2,3,3,3,3}

Print (sunny)

**Set methods**

**Add**

Sunny = { 1,1,1,2,2,3,4,53,546,4}

Sunny.add(123)

Print (sunny)

**Update**

Sunny = { 1,1,1,2,2,3,4,53,546,4}

Sunny.upadte({ 1,2,3,4,5,5,6,7,88})

Print (sunny)

**Remove**

Sunny = { 1,1,1,2,2,3,4,53,546,4}

Sunny.remove(546)

Print(sunny)

Pop

Sunny = { 1,1,1,2,2,3,4,53,546,4}

Sunny.pop()

Print (sunny)

Update

Sunny = { 1,1,1,2,2,3,4,53,546,4}

Sunny.upadte(1,1,1,2,2,3,4,53,546,4 “python”)

Vimath = { 3,2,1,4}

Vimath.clear()

Print(vimath)

**Set operations**

1. Union ( )
2. Difference( )
3. Intersection ( )
4. Is -disjoint ( )
5. Is -subset ( )
6. Is- superset ( )
7. Symmetric-difference ( )

* Union

set1={1,2,3}

set2={4,5,6}

print(set1.union(set2))

* intersection

set1={1,2,3}

set2={4,5,6}

print(set1.intersection(set2))

* difference

set1={1,2,3}

set2={4,5,6}

print(set1.difference(set2))

* symmetric difference

set1={1,2,3}

set2={4,5,6}

print(set1.symmetric\_difference(set2))

* Disjoint

set1={1,2,3}

set2={5,6,7,2}

print(set1.isdisjoint(set2))

* subset

set1={1,2,3}

set2={5,6,7}

print(set1.issubset(set2))

* for loop

for j in{1,2,3,24,4,45}:

    if j==1:

        print("yes")

        break

    else:

        print("false")

**Frozen set**

The frozen set ( ) returns an immutable frozen object initialized with element from the given iterable.

Frozen set is immutable version of a python set object.

Elements of set can be modified at any time

h=[12,33,4,4]

print(type(h))

d=frozenset(h)

print(list(d))