

In [1]:

```
set1 = {"apple", "banana", "cherry"}  
set2 = {1, 5, 7, 9, 3}  
set3 = {True, False, False}
```

In [3]:

```
type(set3)
```

Out[3]:

```
set
```

In [5]:

```
thisset = set("apple", "banana", "cherry") # note the double round-brackets  
print(thisset)
```

```
-----  
TypeError: Traceback (most recent call last)
```

```
Input In [5], in <cell line: 1>()
```

```
----> 1 thisset = set("apple", "banana", "cherry") # note the double round-brackets  
      2 print(thisset)
```

```
TypeError: set expected at most 1 argument, got 3
```

In [6]:

```
thisset = set(("apple", "banana", "cherry")) # note the double round-brackets  
print(thisset)
```

```
{'apple', 'cherry', 'banana'}
```

In [7]:

```
thisset = {"apple", "banana", "cherry"}  
print("banana" in thisset)
```

```
True
```

In [8]:

```
thisset = {"apple", "banana", "cherry"}  
thisset.add("orange")  
print(thisset)
```

```
{'apple', 'cherry', 'banana', 'orange'}
```

In [6]:

```
thisset = {"apple", "banana", "cherry"}  
tropical = {"pineapple", "mango", "papaya"}  
  
thisset.update(tropical)  
  
print(thisset)  
thisset  
  
{'banana', 'papaya', 'mango', 'apple', 'pineapple', 'cherry'}
```

Out[6]:

```
{'apple', 'banana', 'cherry', 'mango', 'papaya', 'pineapple'}
```

In [27]:

```
s={'apple', 'banana', 'pineapple', 'mango', 'papaya', 'cherry'}  
s
```

Out[27]:

```
{'apple', 'banana', 'cherry', 'mango', 'papaya', 'pineapple'}
```

In [8]:

```
thisset = {"apple", "banana", "cherry"}  
mylist = ("kiwi", "orange")  
thisset.update("apple")  
print(thisset)  
thisset  
  
{'a', 'p', 'banana', 'apple', 'l', 'e', 'cherry'}
```

Out[8]:

```
{'a', 'apple', 'banana', 'cherry', 'e', 'l', 'p'}
```

In [40]:

```
thisset = {"dapple", "banana", "cherry"}  
thisset.remove("banana")  
print(thisset)  
  
{'cherry', 'dapple'}
```

In [37]:

```
thisset = {"apple", "", "cherry"}  
thisset.remove("banana")  
  
print(thisset)  
  
-----  
KeyErrorTraceback (most recent call last)  
Input In [37], in <cell line: 3>()  
    1 thisset = {"apple", "", "cherry"}  
----> 3 thisset.remove("banana")  
    5 print(thisset)
```

KeyError: 'banana'

In [38]:

```
thisset = {"apple", "banana", "cherry"}  
thisset.discard("banana")  
  
print(thisset)  
  
{'apple', 'cherry'}
```

In [42]:

```
thisset = {"apple", "", "cherry"}  
thisset.discard("banana")  
  
print(thisset)  
  
{'apple', '', 'cherry'}
```

In [11]:

```
thisset = { "banana", "apple", "cherry"}  
x = thisset.pop()  
print(x)  
print(thisset)  
  
banana  
{'apple', 'cherry'}
```

In [12]:

```
thisset = { "banana", "apple", "cherry"}  
x = thisset.pop()  
print(x)  
print(thisset)  
  
banana  
{'apple', 'cherry'}
```

In [76]:

```
thisset = {"apple", "banana", "cherry"}  
thisset.clear()  
print(thisset)  
set()
```

In [77]:

```
thisset = {"apple", "banana", "cherry"}  
del thisset  
print(thisset)
```

```
-----  
NameErrorTraceback (most recent call last)  
Input In [77], in <cell line: 5>()  
    1 thisset = {"apple", "banana", "cherry"}  
    3 del thisset  
----> 5 print(thisset)
```

NameError: name 'thisset' is not defined

In [13]:

```
set1 = {"a", "b", "c"}  
set2 = {1, 2, 3}  
  
set3 = set1.union(set2)  
print(set3)
```

{1, 2, 3, 'b', 'c', 'a'}

In [14]:

```
set1 = {"a", "b", "c"}  
set2 = {1, 2, 3}  
set1.union(set2)  
print(set1)
```

{'a', 'c', 'b'}

In [15]:

```
x = {"apple", "banana", "cherry"}  
y = {"google", "microsoft", "apple"}  
  
x.intersection_update(y)  
  
print(x)  
  
{'apple'}
```

In [90]:

```
x = {"apple", "banana", "cherry"}  
y = {"google", "microsoft", "apple"}  
  
z = x.intersection(y)  
  
print(z)  
{'apple'}
```

In [91]:

```
x = {"apple", "banana", "cherry"}  
y = {"google", "microsoft", "apple"}  
  
x.symmetric_difference_update(y)  
  
print(x)  
{'banana', 'microsoft', 'cherry', 'google'}
```

In [92]:

```
x = {"apple", "banana", "cherry"}  
y = {"google", "microsoft", "apple"}  
  
z = x.symmetric_difference(y)  
  
print(z)  
{'banana', 'microsoft', 'cherry', 'google'}
```

In [95]:

```
x = {"apple", "banana", "cherry", True}  
y = {"google", 1, "apple", 2}  
  
z = x.symmetric_difference(y)  
z
```

Out[95]:

```
{2, 'banana', 'cherry', 'google'}
```

In [5]:

```
d={"apple":[1,2,3]}  
d['apple'].append(4)  
d
```

Out[5]:

```
{'apple': [1, 2, 3, 4]}
```

In [4]:

```
fruits = {"apple", "banana", "cherry"}  
  
x = fruits.copy()  
  
print(x)  
x.pop()  
print(fruits)  
x
```

```
{'apple', 'banana', 'cherry'}  
{'apple', 'banana', 'cherry'}
```

Out[4]:

```
{'banana', 'cherry'}
```

In [6]:

```
x = {"apple", "banana", "cherry"}  
y = {"google", "microsoft", "apple"}  
  
z = x.difference(y)  
  
print(z)
```

```
{'banana', 'cherry'}
```

In [7]:

```
x = {"apple", "banana", "cherry"}  
y = {"google", "microsoft", "apple"}  
  
x.difference_update(y)  
  
print(x)
```

```
{'banana', 'cherry'}
```

In [8]:

```
x = {"apple", "banana", "cherry"}  
y = {"google", "microsoft", "facebook"}  
  
z = x.isdisjoint(y)  
  
print(z)
```

```
True
```

In [9]:

```
x = {"a", "b", "c"}  
y = {"f", "e", "d", "c", "b", "a"}  
  
z = x.issubset(y)  
  
print(z)
```

True

In [10]:

```
x = {"f", "e", "d", "c", "b", "a"}  
y = {"a", "b", "c"}  
  
z = x.issuperset(y)  
  
print(z)
```

True

In [11]:

```
x = {"a", "b", "c"}  
y = {"f", "d", "a"}  
z = {"c", "d", "e"}  
  
result = x.union(y, z)  
  
print(result)
```

{'d', 'a', 'b', 'f', 'e', 'c'}

In []:

In []: