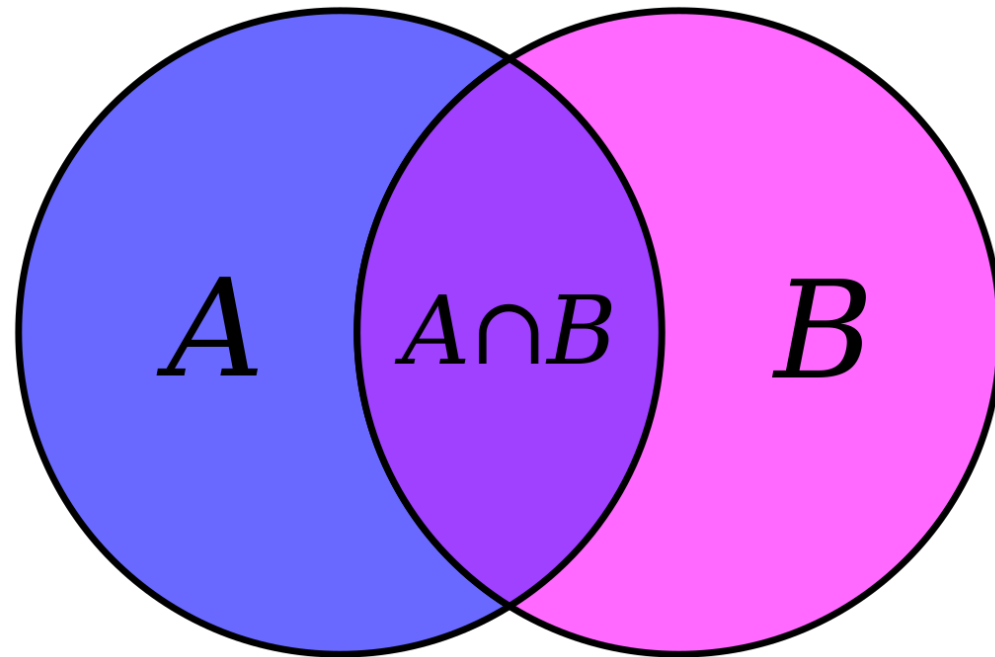


SETS

Built-In Functions



Built-in Functions

Method

[add\(\)](#)

[clear\(\)](#)

[copy\(\)](#)

[difference\(\)](#)

[difference_update\(\)](#)

[discard\(\)](#)

[intersection\(\)](#)

[intersection_update\(\)](#)

[isdisjoint\(\)](#)

[issubset\(\)](#)

[issuperset\(\)](#)

[pop\(\)](#)

[remove\(\)](#)

[symmetric_difference\(\)](#)

[symmetric_difference_update\(\)](#)

[union\(\)](#)

[update\(\)](#)

Description

Adds an element to the set

Removes all the elements from the set

Returns a copy of the set

Returns a set containing the difference between two or more sets

Removes the items in this set that are also included in another, specified set

Remove the specified item

Returns a set, that is the intersection of two other sets

Removes the items in this set that are not present in other, specified set(s)

Returns whether two sets have a intersection or not

Returns whether another set contains this set or not

Returns whether this set contains another set or not

Removes an element from the set

Removes the specified element

Returns a set with the symmetric differences of two sets

inserts the symmetric differences from this set and another

Return a set containing the union of sets

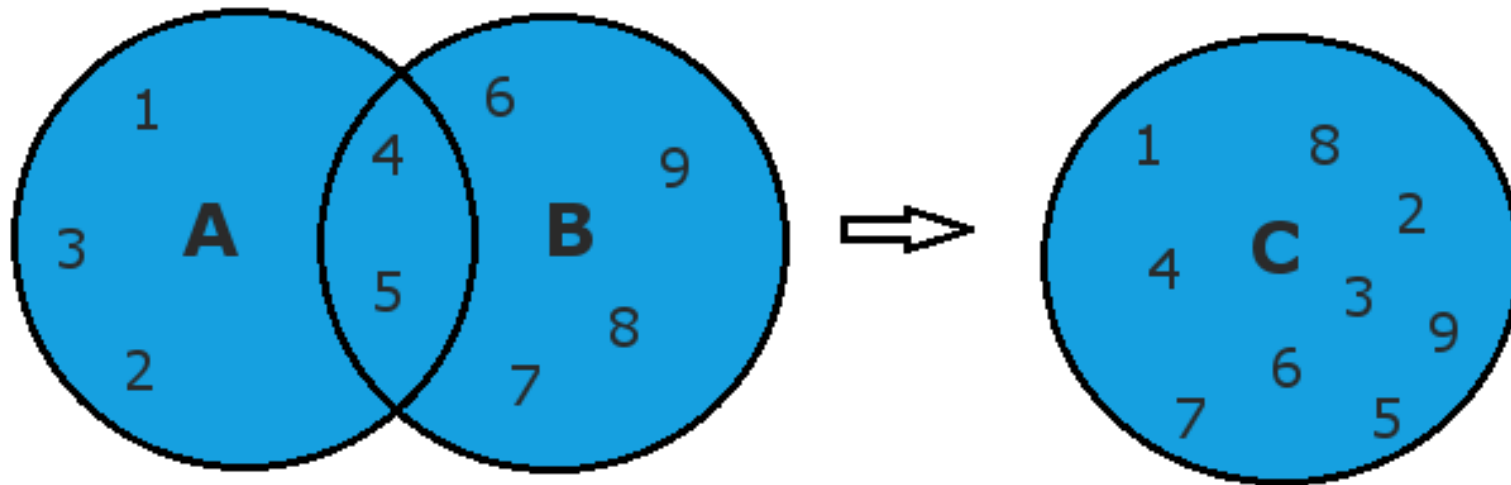
Update the set with the union of this set and others

union()

SetA = set([1,2,3,4,5])

SetB = set([4,5,6,7,8,9])

SetA.**union**(SetB) #the **union()** method in sets to update 2 sets but without repetition.



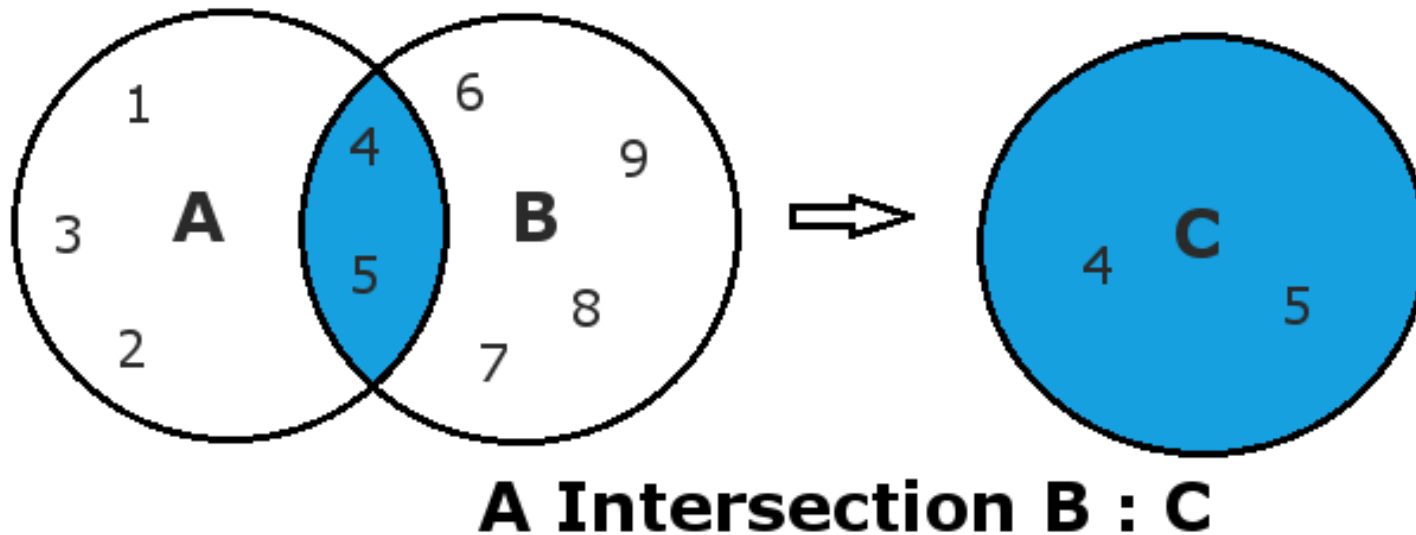
A Union B : C

intersection()

SetA = {1,2,3,4,5}

SetB = {4,5,6,7,8,9}

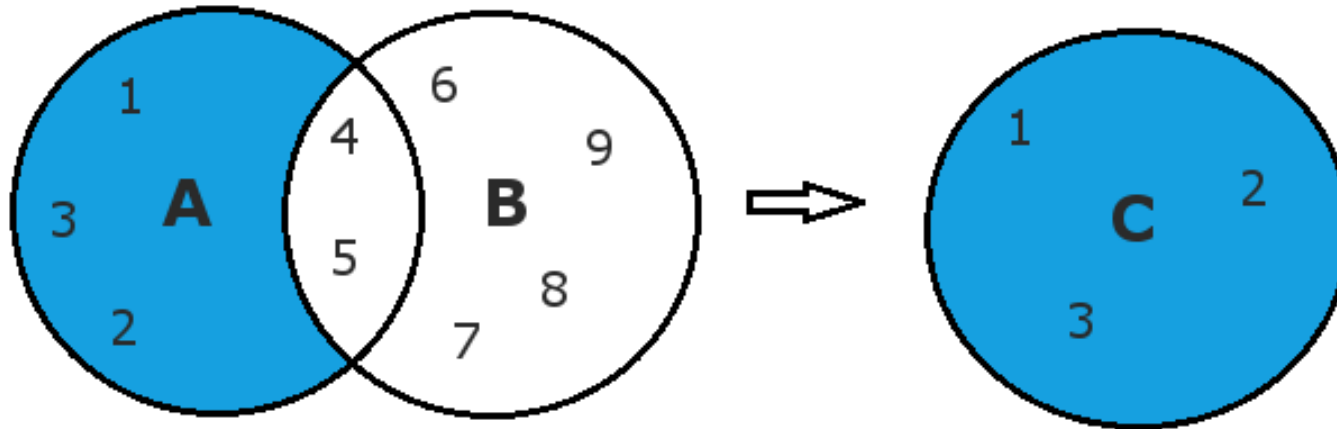
SetA.intersection(SetB) # the .intersection() method in sets to find Common elements in both sets.



difference()

A={1,2,3,4,5}
B={4,5,6,7,8,9}

```
print(A.difference(B))    #the .difference() method in sets  
print()  
print(B.difference(A))
```



A Difference B : C

symmetric_difference()

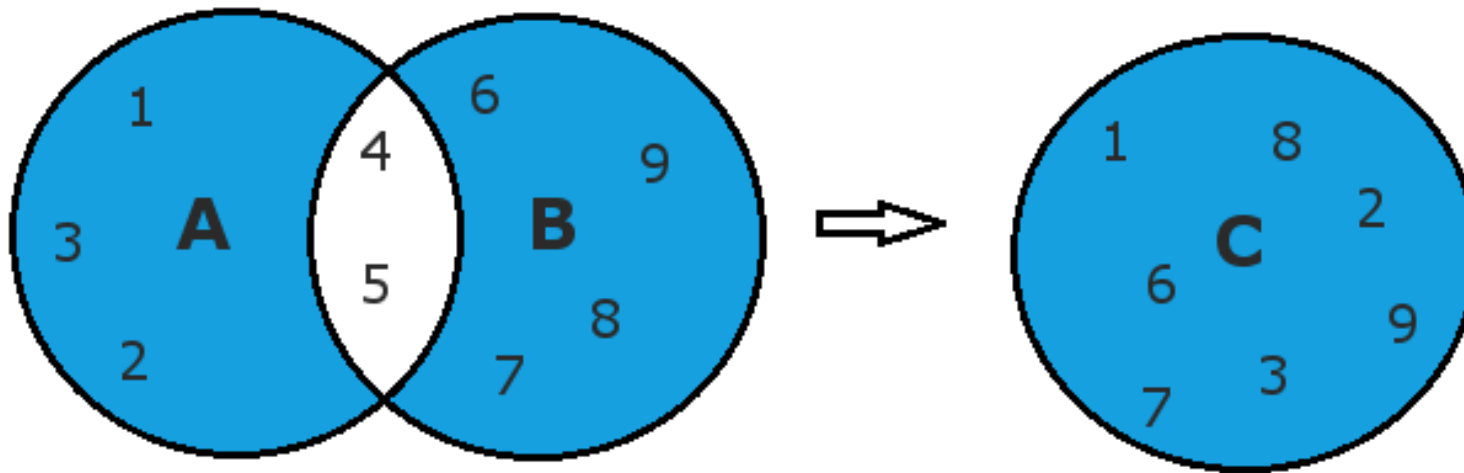
A = {1,2,3,4,5}

B = {4,5,6,7,8,9}

```
print(A.symmetric_difference(B)) #the .symmetric_difference method in sets.
```

```
print()
```

```
print(B.symmetric_difference(A))
```



A Symmetric Difference B : C

issubset()

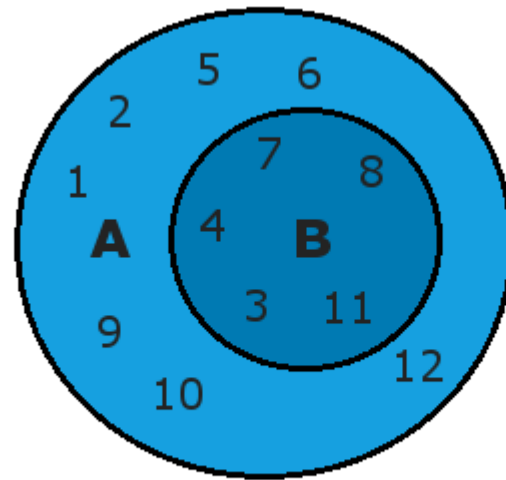
A={1,2,3,4,5,6,7,8,9,10,11,12}

B={3,4,7,8,11}

print(A.issubset(B)) #returns (Boolean Value/True or False)

print()

print(B.issubset(A)) #returns True or False



B is SubSet of A

issuperset()

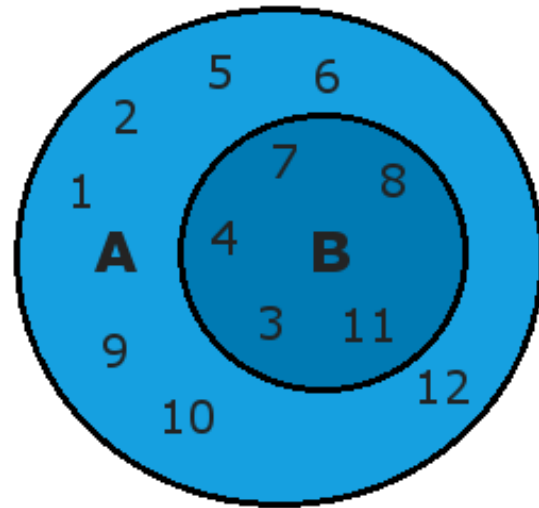
A={1,2,3,4,5,6,7,8,9,10,11,12}

B={3,4,7,8,11}

#print(A.issuperset(B)) #will return (Boolean Value/True or False)

print(B.issuperset(A))

returns: **True**. As A is the superset of B



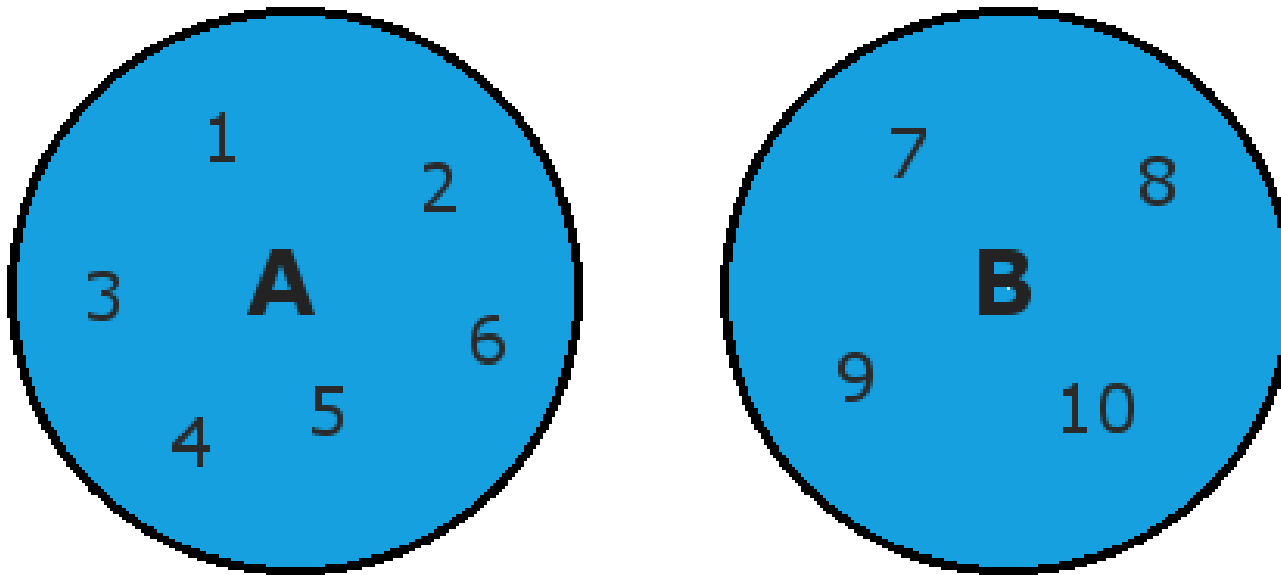
A is SuperSet of B

isdisjoint()

A={1,2,3,4,5,6}

B={7,8,9,10}

print(A.isdisjoint(B)) #will return True or False. True if there are no common elements in them.



Disjoint Set

symmetric_difference_update

Updates the set by keeping only elements found in either set, but not in both.

```
# Update A by adding items from B, except common items
```

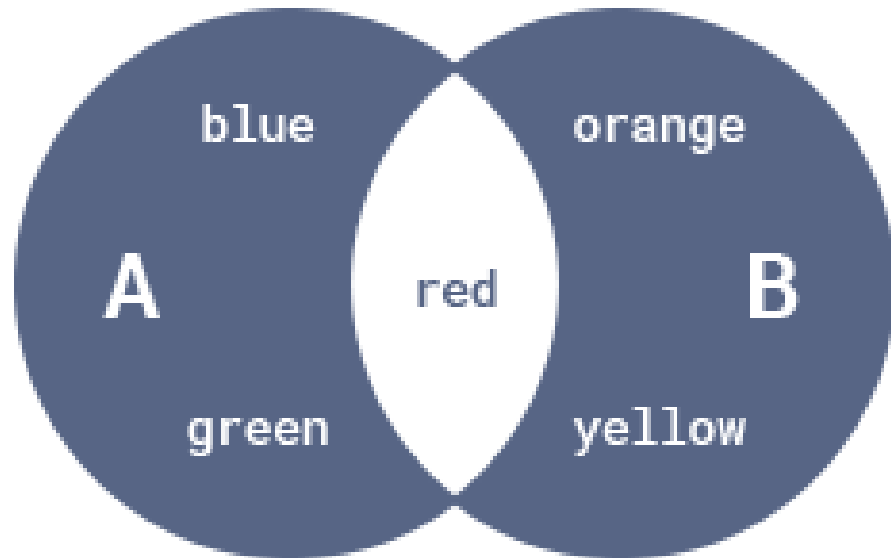
```
A = {'red', 'green', 'blue'}
```

```
B = {'yellow', 'red', 'orange'}
```

```
A.symmetric_difference_update(B)
```

```
print(A)
```

```
# Prints {'blue', 'orange', 'green', 'yellow'}
```



The End