

```
In [1]: myset={1,2,3,4,5}
        myset
```

```
Out[1]: {1, 2, 3, 4, 5}
```

```
In [2]: len(myset)
```

```
Out[2]: 5
```

```
In [3]: my_set={1,1,2,2,3,3,4,5,5}
        my_set
```

```
Out[3]: {1, 2, 3, 4, 5}
```

```
In [4]: myset1={1.79,2.08,3.99,4.56,5.45}
        myset1
```

```
Out[4]: {1.79, 2.08, 3.99, 4.56, 5.45}
```

```
In [5]: myset2={'Priya','Anu','Mouni'}
        myset2
```

```
Out[5]: {'Anu', 'Mouni', 'Priya'}
```

```
In [6]: myset3={10,20,"Priya",(11,22,32)}
        myset3
```

```
Out[6]: {(11, 22, 32), 10, 20, 'Priya'}
```

```
In [9]: myset3={10,20,"Priya",[11,22,32]}
        myset3
```

```
-----
TypeError                                Traceback (most recent call last)
Cell In[9], line 1
----> 1 myset3={10,20,"Priya",[11,22,32]}
      2 myset3

TypeError: unhashable type: 'list'
```

```
In [10]: myset4=set()
         print(type(myset4))
```

```
<class 'set'>
```

```
In [11]: my_set1=set(('one','two','three','four'))
        my_set1
```

```
Out[11]: {'four', 'one', 'three', 'two'}
```

```
In [12]: myset={'one','two','three','four','five','six','seven','eight'}
        for i in myset:
            print(i)
```

```
three
six
seven
five
two
one
eight
four
```

```
In [13]: for i in enumerate(myset):
          print(i)
```

```
(0, 'three')
(1, 'six')
(2, 'seven')
(3, 'five')
(4, 'two')
(5, 'one')
(6, 'eight')
(7, 'four')
```

```
In [14]: myset
```

```
Out[14]: {'eight', 'five', 'four', 'one', 'seven', 'six', 'three', 'two'}
```

```
In [15]: 'one' in myset
```

```
Out[15]: True
```

```
In [16]: 'ten' in myset
```

```
Out[16]: False
```

```
In [17]: if 'three' in myset:
          print('Three is present in the set')
        else:
          print('Three is not present in the set')
```

```
Three is present in the set
```

```
In [18]: if 'eleven' in myset:
          print('Eleven is present in the set')
        else:
          print('Eleven is not present in the set')
```

```
Eleven is not present in the set
```

```
In [19]: myset
```

```
Out[19]: {'eight', 'five', 'four', 'one', 'seven', 'six', 'three', 'two'}
```

```
In [20]: myset.add('NINE')
          myset
```

```
Out[20]: {'NINE', 'eight', 'five', 'four', 'one', 'seven', 'six', 'three', 'two'}
```

```
In [21]: myset.update(['TEN', 'ELEVEN', 'TWELVE'])
          myset
```

```
Out[21]: {'ELEVEN',
          'NINE',
          'TEN',
          'TWELVE',
          'eight',
          'five',
          'four',
          'one',
          'seven',
          'six',
          'three',
          'two'}
```

```
In [22]: myset.remove('NINE')
myset
```

```
Out[22]: {'ELEVEN',
          'TEN',
          'TWELVE',
          'eight',
          'five',
          'four',
          'one',
          'seven',
          'six',
          'three',
          'two'}
```

```
In [23]: myset.discard('TEN')
myset
```

```
Out[23]: {'ELEVEN',
          'TWELVE',
          'eight',
          'five',
          'four',
          'one',
          'seven',
          'six',
          'three',
          'two'}
```

```
In [24]: myset.clear()
myset
```

```
Out[24]: set()
```

```
In [25]: del myset
myset
```

```
-----
NameError                                Traceback (most recent call last)
Cell In[25], line 2
      1 del myset
----> 2 myset

NameError: name 'myset' is not defined
```

```
In [26]: myset={'one','two','three','four','five','six','seven','eight'}
```

```
myset
```

```
Out[26]: {'eight', 'five', 'four', 'one', 'seven', 'six', 'three', 'two'}
```

```
In [27]: myset1=myset  
myset1
```

```
Out[27]: {'eight', 'five', 'four', 'one', 'seven', 'six', 'three', 'two'}
```

```
In [28]: id(myset),id(myset1)
```

```
Out[28]: (2973996508192, 2973996508192)
```

```
In [29]: my_set=myset.copy()  
my_set
```

```
Out[29]: {'eight', 'five', 'four', 'one', 'seven', 'six', 'three', 'two'}
```

```
In [30]: id(my_set)
```

```
Out[30]: 2974003982432
```

```
In [31]: myset.add('nine')  
myset
```

```
Out[31]: {'eight', 'five', 'four', 'nine', 'one', 'seven', 'six', 'three', 'two'}
```

```
In [32]: myset1
```

```
Out[32]: {'eight', 'five', 'four', 'nine', 'one', 'seven', 'six', 'three', 'two'}
```

```
In [33]: my_set
```

```
Out[33]: {'eight', 'five', 'four', 'one', 'seven', 'six', 'three', 'two'}
```

```
In [35]: A={1,2,3,4,5}  
B={4,5,6,7,8}  
c={8,9,10}
```

```
In [36]: A|B
```

```
Out[36]: {1, 2, 3, 4, 5, 6, 7, 8}
```

```
In [37]: A.union(B)
```

```
Out[37]: {1, 2, 3, 4, 5, 6, 7, 8}
```

```
In [39]: A.union(B,c)
```

```
Out[39]: {1, 2, 3, 4, 5, 6, 7, 8, 9, 10}
```

```
In [40]: A={1,2,3,4,5}  
B={4,5,6,7,8}
```

```
In [41]: A&B
```

Out[41]: {4, 5}

In [42]: A.intersection(B) Intersection of A and B

Cell In[42], line 1
A.intersection(B) Intersection of A and B
 ^
SyntaxError: invalid syntax

In [53]: A={1,2,3,4,5}
B={4,5,6,7,8}

In [54]: A-B

Out[54]: {1, 2, 3}

In [55]: A.difference(B)

Out[55]: {1, 2, 3}

In [56]: B-A

Out[56]: {6, 7, 8}

In [57]: B.difference(A)

Out[57]: {6, 7, 8}

In [58]: A={1,2,3,4,5}
B={4,5,6,7,8}

In [59]: A^B

Out[59]: {1, 2, 3, 6, 7, 8}

In [60]: A.symmetric_difference(B)

Out[60]: {1, 2, 3, 6, 7, 8}

In [51]: A.symmetric_difference_update(B)
A

Out[51]: {1, 2, 3, 6, 7, 8}

In [61]: A={1,2,3,4,5,6,7,8,9}
B={3,4,5,6,7,8}
C={10,20,30,40}

In [62]: B.issubset(A)

Out[62]: True

In [63]: A.issuperset(B)

Out[63]: True

```
In [64]: C.isdisjoint(A)
```

```
Out[64]: True
```

```
In [65]: B.isdisjoint(A)
```

```
Out[65]: False
```

```
In [66]: A
```

```
Out[66]: {1, 2, 3, 4, 5, 6, 7, 8, 9}
```

```
In [67]: sum(A)
```

```
Out[67]: 45
```

```
In [68]: max(A)
```

```
Out[68]: 9
```

```
In [69]: min(A)
```

```
Out[69]: 1
```

```
In [70]: len(A)
```

```
Out[70]: 9
```

```
In [71]: list(enumerate(A))
```

```
Out[71]: [(0, 1), (1, 2), (2, 3), (3, 4), (4, 5), (5, 6), (6, 7), (7, 8), (8, 9)]
```

```
In [72]: D=sorted(A,reverse=True)  
D
```

```
Out[72]: [9, 8, 7, 6, 5, 4, 3, 2, 1]
```

```
In [74]: sorted(D)
```

```
Out[74]: [1, 2, 3, 4, 5, 6, 7, 8, 9]
```

```
In [ ]:
```