In [1]:
```
set = {1,2,3,4,5}
print(set)
```

```
{1, 2, 3, 4, 5}
```

In [2]:
```
set = {1, "Hello World!", [1,2,3,4]}
print(set)
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
C:\Users\PRATIK~1\AppData\Local\Temp/ipykernel_15116/2687023742.py in <module>
----> 1 set = {1, "Hello World!", [1,2,3,4]}
      2 print(set)

TypeError: unhashable type: 'list'
```

In [3]:
```
set = {1, "Hello World!", [1,2,3,4]}
for i in set:
    print(set)
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
C:\Users\PRATIK~1\AppData\Local\Temp/ipykernel_15116/790685866.py in <module>
----> 1 set = {1, "Hello World!", [1,2,3,4]}
      2 for i in set:
      3     print(set)

TypeError: unhashable type: 'list'
```

In [4]:
```
set = {1, "Hello World!", (1,2,3,4)}
for i in set:
    print(i)
```

```
(1, 2, 3, 4)
1
Hello World!
```

In [5]:
```
set = {1,2,3,2,1,2,3,4,5,3,4,1,3,4}
print(set)
```

```
{1, 2, 3, 4, 5}
```

In [6]:
```
set = {1,2,3,2,1,2,3,4,5,3,4,1,3,4}
print(max(set))
```

```
5
```

In [7]:
```
set = {1,2,3,2,1,2,3,4,5,3,4,1,3,4}
fre = max(set, key=set.count)
freq = set.count(fre)
print(freq)
```

```
---------------------------------------------------------------------------
AttributeError                            Traceback (most recent call last)
C:\Users\PRATIK~1\AppData\Local\Temp/ipykernel_15116/3145950166.py in <module>
      1 set = {1,2,3,2,1,2,3,4,5,3,4,1,3,4}
----> 2 fre = max(set, key=set.count)
      3 freq = set.count(fre)
      4 print(freq)

AttributeError: 'set' object has no attribute 'count'
```

In [8]:
```
a = {}
print(type(a))
```

```
<class 'dict'>
```

In [9]:
```
a = set()
printt(type(a))
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
C:\Users\PRATIK~1\AppData\Local\Temp/ipykernel_15116/1892445378.py in <module>
----> 1 a = set()
      2 printt(type(a))

TypeError: 'set' object is not callable
```

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

```
---------------------------------------------------------------------------
```

```
TypeError                                 Traceback (most recent call last)
C:\Users\PRATIK~1\AppData\Local\Temp/ipykernel_15116/786352214.py in <module>
----> 1 a = set()
      2 print(type(a))

TypeError: 'set' object is not callable
```

In [11]:
```
set = {1, "Hello World!", (1,2,3,4)}
print(set[0])
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
C:\Users\PRATIK~1\AppData\Local\Temp/ipykernel_15116/4021405264.py in <module>
      1 set = {1, "Hello World!", (1,2,3,4)}
----> 2 print(set[0])

TypeError: 'set' object is not subscriptable
```

In [12]:
```
set = {1,2,3,4}
set.add('Numbers')
print(set)
```

```
{1, 2, 3, 4, 'Numbers'}
```

In [13]:
```
set = {1,2,3,4}
set.update(2, 6)
print(set)
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
C:\Users\PRATIK~1\AppData\Local\Temp/ipykernel_15116/2967498108.py in <module>
      1 set = {1,2,3,4}
----> 2 set.update(2, 6)
      3 print(set)

TypeError: 'int' object is not iterable
```

In [14]:
```
set = {1,2,3,4}
set.update([4,5,6])
print(set)
```

```
{1, 2, 3, 4, 5, 6}
```

In [15]:
```
set = {1,2,3,4}
set.update([2,22], {3,5,7,1,3,4})
print(set)
```

```
{1, 2, 3, 4, 5, 7, 22}
```

In [16]:
```
a= set()
print(a)
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
C:\Users\PRATIK~1\AppData\Local\Temp/ipykernel_15116/1548928930.py in <module>
----> 1 a= set()
      2 print(a)

TypeError: 'set' object is not callable
```

In [17]:
```
set = {'lemon', 'egg', 'knife', 'water'}
set.remove('spoon')
print(set)
```

```
---------------------------------------------------------------------------
KeyError                                  Traceback (most recent call last)
C:\Users\PRATIK~1\AppData\Local\Temp/ipykernel_15116/705901315.py in <module>
      1 set = {'lemon', 'egg', 'knife', 'water'}
----> 2 set.remove('spoon')
      3 print(set)

KeyError: 'spoon'
```

In [18]:
```
set = {'lemon', 'egg', 'knife', 'water'}
set.discard('spoon')
print(set)
```

```
{'egg', 'lemon', 'knife', 'water'}
```

In [19]:
```
set = {'lemon', 'egg', 'knife', 'water'}
print('egg' in set)
```

```
True
```

In [20]:
```
set = {'lemon', 'egg', 'knife', 'water'}
print('bread' in set)
```

```
False
```

In [21]:
```
set1 = {'lemon', 'egg', 'knife', 'water'}
set2 = {'water', 'beach', 'ball', 'lemon', 'juice'}
```

```
print(set1.union(set2))
```

```
{'egg', 'juice', 'water', 'lemon', 'knife', 'ball', 'beach'}
```

In [22]:
```
set1 = {'lemon', 'egg', 'knife', 'water'}
set2 = {'water', 'beach', 'ball', 'lemon', 'juice'}
print(set1|set2)
```

```
{'egg', 'juice', 'water', 'lemon', 'knife', 'ball', 'beach'}
```

In [23]:
```
set1 = {'lemon', 'egg', 'knife', 'water'}
set2 = {'water', 'beach', 'ball', 'lemon', 'juice'}
print(set1.intersect(set2))
```

```
---------------------------------------------------------------------------
AttributeError                            Traceback (most recent call last)
C:\Users\PRATIK~1\AppData\Local\Temp/ipykernel_15116/1993972995.py in <module>
      1 set1 = {'lemon', 'egg', 'knife', 'water'}
      2 set2 = {'water', 'beach', 'ball', 'lemon', 'juice'}
----> 3 print(set1.intersect(set2))

AttributeError: 'set' object has no attribute 'intersect'
```

In [24]:
```
set1 = {'lemon', 'egg', 'knife', 'water'}
set2 = {'water', 'beach', 'ball', 'lemon', 'juice'}
print(set1.intersection(set2))
```

```
{'water', 'lemon'}
```

In [25]:
```
set1 = {'lemon', 'egg', 'knife', 'water'}
set2 = {'water', 'beach', 'ball', 'lemon', 'juice'}
print(set1.& set2)
```

```
  File "C:\Users\PRATIK~1\AppData\Local\Temp/ipykernel_15116/637263984.py", line 3
    print(set1.& set2)
               ^
SyntaxError: invalid syntax
```

In [26]:
```
set1 = {'lemon', 'egg', 'knife', 'water'}
set2 = {'water', 'beach', 'ball', 'lemon', 'juice'}
print(set1 & set2)
```

```
{'water', 'lemon'}
```

In [27]:
```
set1 = {'lemon', 'egg', 'knife', 'water'}
print("1.", set1)
```

```
1. {'egg', 'lemon', 'knife', 'water'}
```

In [ ]:
```

```