Sets

In [1]:
```
mySet = {'a', 'b', 'c'}
mySet
```

Out[1]:
```
{'a', 'b', 'c'}
```

In [3]:
```
mySet = set(('a', 'b', 'c'))
```

In [4]:
```
mySet
```

Out[4]:
```
{'a', 'b', 'c'}
```

In [5]:
```
myList = ['a', 'b', 'b', 'c', 'c']
myList = list(set(myList))
myList
```

Out[5]:
```
['a', 'b', 'c']
```

In [6]:
```
mySet[0]
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Input In [6], in <module>
----> 1 mySet[0]

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

In [7]:
```
number = 1
1[0]
```

```
<>:2: SyntaxWarning: 'int' object is not subscriptable; perhaps you missed a
comma?
<>:2: SyntaxWarning: 'int' object is not subscriptable; perhaps you missed a
comma?
/var/folders/fl/tpkdpqfn7qj8x03js4wtflc00000gn/T/ipykernel_85667/2203923273.p
y:2: SyntaxWarning: 'int' object is not subscriptable; perhaps you missed a c
omma?
  1[0]
/var/folders/fl/tpkdpqfn7qj8x03js4wtflc00000gn/T/ipykernel_85667/2203923273.p
y:2: SyntaxWarning: 'int' object is not subscriptable; perhaps you missed a c
omma?
  1[0]
/var/folders/fl/tpkdpqfn7qj8x03js4wtflc00000gn/T/ipykernel_85667/2203923273.p
y:2: SyntaxWarning: 'int' object is not subscriptable; perhaps you missed a c
omma?
  1[0]

---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Input In [7], in <module>
      1 number = 1
----> 2 1[0]

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

In [9]:
```
mySet.add('d')
mySet
```

Out[9]:
```
{'a', 'b', 'c', 'd'}
```

In [10]:
```
'a' in mySet
```

Out[10]:
```
True
```

In [11]:
```
'z' in mySet
```

Out[11]:
```
False
```

In [12]:
```
len(mySet)
```

Out[12]:
```
4
```

In [13]:
```
while len(mySet):
    print(mySet.pop())
```

```
a
b
c
d
```

In [15]:
```
mySet
```

Out[15]:
```
set()
```

In [16]:
```
mySet = {'a', 'b', 'c'}
```

In [17]:
```
mySet.discard('a')
```

In [18]:
```
mySet
```

Out[18]:
```
{'b', 'c'}
```

Tuples

In [19]:
```
myTuple = ('a', 'b', 'c')
myTuple
```

Out[19]:
```
('a', 'b', 'c')
```

In [20]:
```
myTuple[0]
```

Out[20]:
```
'a'
```

In [21]:
```
myTuple[0] = 'd'
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Input In [21], in <module>
----> 1 myTuple[0] = 'd'

TypeError: 'tuple' object does not support item assignment
```

In [27]:
```
def returnsMultipleValues():
    return 1,2,3

type(returnsMultipleValues())
```

Out[27]:
```
tuple
```

In [26]:
```
myTuple = (1,2,3)
```

In [25]:
```
type(myTuple)
```

Out[25]:
```
tuple
```

In [28]:
```
a, b, c = returnsMultipleValues()
```

In [29]:
```
print(a)
print(b)
print(c)
```

```
1
2
3
```

In [ ]:
```

```