Sets

```
# Sets are used to store multiple items in a single variable.
# A set is a collection which is unordered, unchangeable, and unindexed.
# Set items are unchangeable, but you can remove items and add new items.

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



thisset1 = {"apple", "banana", "cherry", "apple"}
print(thisset1)

#len()
#type()

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

MySet = {"apple", "banana", "cherry"}

for x in MySet:
  print(x)

thisset = {"apple", "banana", "cherry"}
thisset.add("orange")
print(thisset) # sets are unordered collections.
```

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

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

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

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

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

```
print(thisset)



thisset = {"apple", "banana", "cherry"}
del thisset
print(thisset) #throw exception



#Join two sets
set1 = {"a", "b" , "c"}
set2 = {1, 2, 3}
set3 = set1.union(set2)
print(set3)



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



x = {"apple", "banana", "cherry"}
y = {"google", "microsoft", "apple"}
```

```
x.intersection_update(y)
print(x)
```

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

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

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