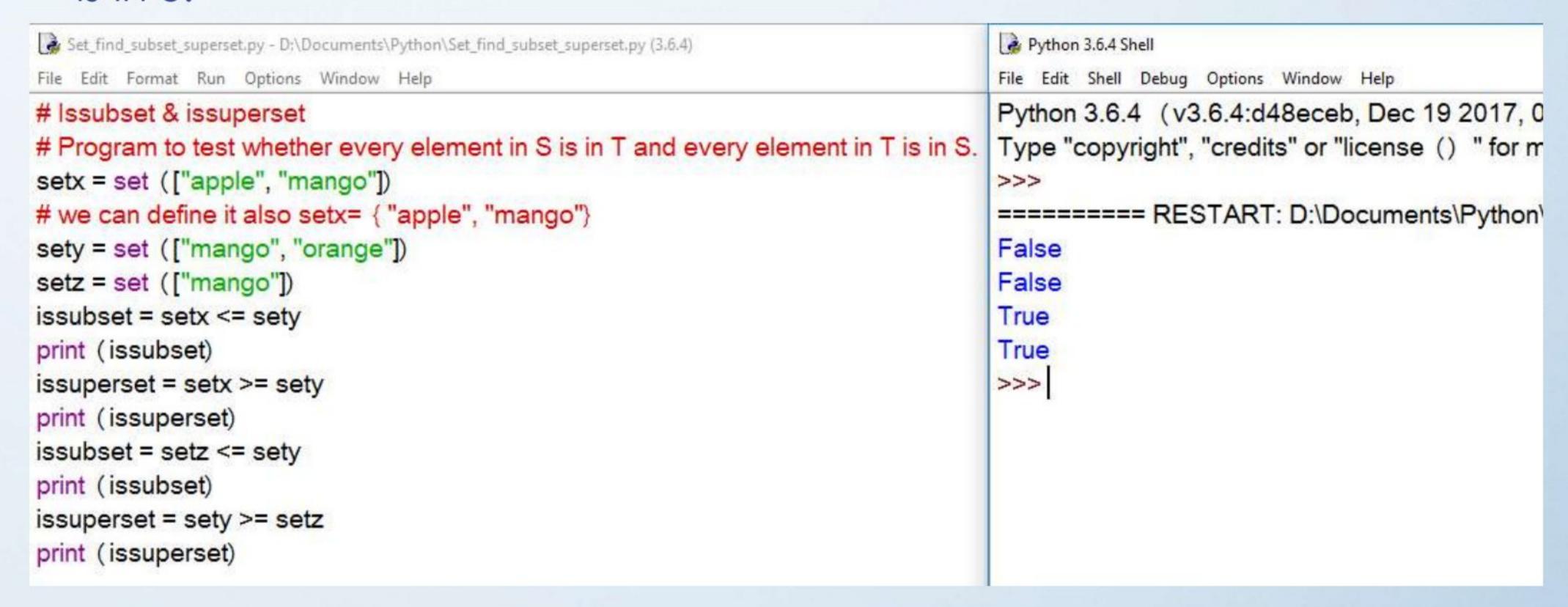


## Operations and Manipulation

```
x= { 14,21, True, 21, 'abc'}
print (x)
# Indexing not possible
#print (x[1])
# Membership
if 21 in x:
  print (True)
# Add a value
x.add (15)
print (x)
# Remove any value
x.pop()
print (x)
# Remove specific value
x.remove (21)
print (x)
# Unique function# Union combine two sets with |
print ( { 12,14,15,21,54} | { 21,15,23} )
# Intersection with &
print ( { 12,14,15,21,54} & { 21,15,23} )
# Defferentiation with - Return unique value of left set
print ( { 12,14,15,21,54} - { 21,15,23} )
# Symetry differentiation with ^ return none commn value from both
print ( { 12,14,15,21,54} ^ { 21,15,23} )
```

```
Python 3.6.4 (v3.6.4:d48eceb, Dec 19 2017,
Type "copyright", "credits" or "license () " for I
>>>
=========== RESTART: D:/Docu
{ True, 'abc', 21, 14}
True
{ True, 'abc', 14, 15, 21}
{ 'abc', 14, 15, 21}
{ 'abc', 14, 15}
{21, 54, 23, 12, 14, 15}
{21, 15}
{54, 12, 14}
{ 12, 14, 54, 23}
>>>
```

# Program to test whether every element in **S** is in **T** and every element in **T** is in **S**.



## Program create a Shallow copy of a set

```
File Edit Format Run Options Window Help

# Shallow copy
setx= { "Rajat",12,True,5.21, (1,"Cetpa") }
scopy=setx.copy ()
print (scopy)

File Edit Shell Debug Options Window Help

File Edit Shell Debug Options Window Help

Python 3.6.4 Shell
File Edit Shell Debug Options Window Help

File Edit Shell Debug Options Window Help

Python 3.6.4 (v3.6.4:d48eceb, Dec 19 2017, 06:04:45)

Type "copyright", "credits" or "license () " for more information of the copy of the copy in the copy of the copy is a set of the copy option of the copy option of the copy option of the copy option opti
```

## Program to create a frozenset

```
Set_frozzen.py - D:/Documents/Python/Set_frozzen.py (3.6.4)
                                                                                             Python 3.6.4 Shell
File Edit Format Run Options Window Help
                                                                                             File Edit Shell Debug Options Window Help
                                                                                            Python 3.6.4 (v3.6.4:d48eceb, Dec
# Program to use of frozensets.
# Frozensets are like sets except that they cannot be changed, i.e. they are immutable:
                                                                                            Type "copyright", "credits" or "license
x = frozenset ([1, 2, 3, 4, 5])
                                                                                            >>>
                                                                                            ======== RESTART: D:/I
y = frozenset ([3, 4, 5, 6, 7])
#use isdisjoint () . Return True if the set has no elements in common with other.
                                                                                            False
print (x.isdisjoint (y))
                                                                                            frozenset ( { 1, 2} )
                                                                                            frozenset ( { 1, 2, 3, 4, 5, 6, 7} )
#use difference () . Return a new set with elements in the set that are not in the others.
print (x.difference (y))
                                                                                            >>>
#new set with elements from both x and y
print (x | y)
```

# Program to find maximum and minimum value of set

