tuple

```
t = ()
t
```

```
()
```

```
print(type(t))
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
<ipython-input-98-bda40061f6cd> in <cell line: 0>()
----> 1 print(type(t))

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

```
t1 = (4,5,6,7,7)
t1
```

```
(4, 5, 6, 7, 7)
```

```
len(t1)
```

```
5
```

```
t1.count()
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
<ipython-input-33-744d352f266f> in <cell line: 0>()
----> 1 t1.count()

TypeError: tuple.count() takes exactly one argument (0 given)
```

```
t1.count(6)
```

```
1
```

```
t1.count(7)
```

```
2
```

```
t1.index(7)
```

```
3
```

```
t2 = (100,2.4,'vanshika',True,1+2j,[3,2,1],(7,8,9))
t2
```

```
(100, 2.4, 'vanshika', True, (1+2j), [3, 2, 1], (7, 8, 9))
```

```
print(t)
print(t1)
print(t2)
```

```
()
(4, 5, 6, 7, 7)
(100, 2.4, 'vanshika', True, (1+2j), [3, 2, 1], (7, 8, 9))
```

```
bankofindia = (123456,'cispz',45897,98756)
bankofindia
```

```
(123456, 'cispz', 45897, 98756)
```

```
bankofindia[0]
```

```
123456
```

```
t1
```

```
(4, 5, 6, 7, 7)
```

```
t3=t1*3
t3
```

```
(4, 5, 6, 7, 7, 4, 5, 6, 7, 7, 4, 5, 6, 7, 7)
```

```
t3
```

```
(4, 5, 6, 7, 7, 4, 5, 6, 7, 7, 4, 5, 6, 7, 7)
```

```
t1[:7]
```

```
(4, 5, 6, 7, 7)
```

```
t3[:3]
```

```
(4, 5, 6)
```

```
t2.index('vanshika')
```

```
2
```

set

```
s = {}
s
```

```
{}
```

```
type(s)
```

```
dict
```

```
s1 = set()
type(s1)
```

```
set
```

```
s2 = {1,2,3,4,5,6,7,8,9}
s2
```

```
{1, 2, 3, 4, 5, 6, 7, 8, 9}
```

```
s3 ={'a','b','c','d'}
s3
```

```
{'a', 'b', 'c', 'd'}
```

```
s4 = {1,2.3,'vanshika',1+2j,[5,6,7],[8,9,10],True}
s4
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
<ipython-input-15-6902730d1277> in <cell line: 0>()
----> 1 s4 = {1,2.3,'vanshika',1+2j,[5,6,7],[8,9,10],True}
      2 s4

TypeError: unhashable type: 'list'
```

```
s5 = {2,3.4,'vanshika',1+2j,True}
s5
```

```
{(1+2j), 2, 3.4, True, 'vanshika'}
```

```
print(s1)
print(s2)
print(s3)
print(s5)
```

```
set()
{1, 2, 3, 4, 5, 6, 7, 8, 9}
{'b', 'd', 'a', 'c'}
```

```
{True, 2, 3.4, 'vanshika', (1+2j)}
```

```
s2
```

```
{1, 2, 3, 4, 5, 6, 7, 8, 9}
```

```
s2.add(60)
s2
```

```
{1, 2, 3, 4, 5, 6, 7, 8, 9, 30, 60, 300}
```

```
s2.add(300)
s2
```

```
{1, 2, 3, 4, 5, 6, 7, 8, 9, 30, 300}
```

```
s2[:]
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
<ipython-input-25-e8cea984b395> in <cell line: 0>()
----> 1 s2[:]

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

```
s2[2:3]
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
<ipython-input-27-655a2af18b1b> in <cell line: 0>()
----> 1 s2[2:3]

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

```
s5
```

```
{(1+2j), 2, 3.4, True, 'vanshika'}
```

```
s4 = s5.copy()
s4
```

```
{(1+2j), 2, 3.4, True, 'vanshika'}
```

```
s4.add(100)
s4
```

```
{(1+2j), 100, 2, 3.4, True, 'vanshika'}
```

```
s5
```

```
{(1+2j), 2, 3.4, True, 'vanshika'}
```

```
s5.clear()
s5
```

```
set()
```

```
del s5
s5
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
<ipython-input-35-83b08382d8d4> in <cell line: 0>()
----> 1 del s5
      2 s5

NameError: name 's5' is not defined
```

```
s4
```

```
{(1+2j), 100, 2, 3.4, True, 'vanshika'}
```

```
s4.remove('vanshika')
s4
```

```
{True, 3.4, 100}
```

```
s3
```

```
{'a', 'b', 'c', 'd'}
```

```
s3.discard('f')
```

```
s3.remove('f')
```

```
---------------------------------------------------------------------------
KeyError                                  Traceback (most recent call last)
<ipython-input-49-fdf966d86d95> in <cell line: 0>()
----> 1 s3.remove('f')

KeyError: 'f'
```

```
s3
```

```
{'a', 'b', 'c', 'd'}
```

```
s3.pop()
```

```
'b'
```

```
s3
```

```
{'a', 'c', 'd'}
```

```
s2.pop(3)
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
<ipython-input-53-fcfe80dd88b7> in <cell line: 0>()
----> 1 s2.pop(3)

TypeError: set.pop() takes no arguments (1 given)
```

```
s2.pop()
```

```
1
```

```
for i in s2:
  print(i)
```

```
2
3
4
5
6
7
8
9
300
60
30
```

```
for i in enumerate (s2):
  print(i)
```

```
(0, 2)
(1, 3)
(2, 4)
(3, 5)
(4, 6)
(5, 7)
(6, 8)
(7, 9)
(8, 300)
(9, 60)
(10, 30)
```

```
s2
```

```
{2, 3, 4, 5, 6, 7, 8, 9, 30, 60, 300}
```

```
10 in s2
```

```
False
```

```
60 in s2
```

```
True
```

```
s2
```

```
{2, 3, 4, 5, 6, 7, 8, 9, 30, 60, 300}
```

```
s3
```

```
{'a', 'c', 'd'}
```

```
s2.update(s3)
s2
```

```
{2, 3, 30, 300, 4, 5, 6, 60, 7, 8, 9, 'a', 'c', 'd'}
```

set operation

```
s6 = {1,2,3,4,5}
s7 = {4,5,6,7,8}
s8 = {8,9,10}
```

```
s6.union(s7)
s6
```

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

```
s6.union(s7,s8)
```

```
{1, 2, 3, 4, 5, 6, 7, 8, 9, 10}
```

```
s6|s7
```

```
{1, 2, 3, 4, 5, 6, 7, 8}
```

```
s7|s8
```

```
{4, 5, 6, 7, 8, 9, 10}
```

```
s6|s8
```

```
{1, 2, 3, 4, 5, 8, 9, 10}
```

```
print(s6)
print(s7)
print(s8)
```

```
{1, 2, 3, 4, 5}
{4, 5, 6, 7, 8}
{8, 9, 10}
```

```
s6.intersection(s7)
```

```
{4, 5}
```

```
s6.intersection(s8)
```

```
set()
```

```
s6&s7
```

```
{4, 5}
```

```
s6.difference(s7)
```

```
{1, 2, 3}
```

```
s6-s7
```

```
{1, 2, 3}
```

```
s7-s8
```

```
{4, 5, 6, 7}
```

```
print(s6)
print(s7)
print(s8)
```

```
{1, 2, 3, 4, 5}
{4, 5, 6, 7, 8}
{8, 9, 10}
```

```
s8-s7
```

```
{9, 10}
```

```
print(s6)
print(s7)
print(s8)
```

```
{1, 2, 3, 4, 5}
{4, 5, 6, 7, 8}
{8, 9, 10}
```

```
s6.symmetric_difference(s7)
```

```
{1, 2, 3, 6, 7, 8}
```

```
s10 = {3,10,14,60}
s10
```

```
{3, 10, 14, 60}
```

```
print(s10)
```

```
{10, 3, 60, 14}
```

```
print(s10)
```

```
{10, 3, 60, 14}
```

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Start coding or generate with AI.