```
🕏 use_of_str.py > ..
     b = [2, 5]
     x = id(a)
      print(x)
      y = id(b)
      print(y)
      a[0] = 9
      print(a)
      print(b)
      print(id(a))
      print(id(b))
      print(type(a))
      print("isinstance(a, str):", isinstance(a, str))
print("isinstance(a, list):", isinstance(a, list))
         assert isinstance(a, str)
           breakpoint()
           print("type error")
      print("goodbye")
```

```
zy01@xzy MINGW64 ~/repo/week05 (main)
python use_of_str.py
2041636133120
2041636131136
[9, 5]
[2, 5]
2041636133120
2041636131136
<class 'list'>
isinstance(a, str): False
isinstance(a,list): True
False
type error
goodbye
(week05)
 zy01@xzy MINGW64 ~/repo/week05 (main)
$ python use_of_str.py
2179182893312
2179182891328
[9, 5]
[2, 5]
2179182893312
2179182891328
<class 'list'>
isinstance(a, str): False
isinstance(a,list): True
False
c:\users\xzy01\repo\week05\use_of_str.py(20)<module>()
-> print("type error")
(Pdb) ] .
15
           print(isinstance(a, (str, float)))
 16
17
           try:
                assert isinstance(a, str)
 18
19
           except AssertionError:
                 breakpoint()
          print("type error")
print("goodbye")
 20
21
      ->
[EOF]
(Pdb) p a
[9, 5]
(Pdb)
```

```
use_of_str.py > ...
      print("字面值")
      s = "university"
      print(s)
      print(isinstance(s, str))
      assert type(s) is str
      print("f-string")
      x = "Tom"
     s = f"name:{x}"
      print(s)
11
      s = "a\tb"
12
      print("TAB", s)
13
15 s = "aaa \nbbb"
      print("New line", s)
17
19 \vee s = """xzy
20 xyz
         aaa
     print(s)
```

```
(week05)
xzy01@xzy MINGW64 ~/repo/week05 (main)
$ python use_of_str.py
字面值
university
True
f-string
name:Tom
TAB a b
New line aaa
bbb
xzy
xyz
abc
aaa
```

```
print("初始化")
27
     s = str()
29
     print(s)
30
     s = str([5, 8, 2])
31
     print(s)
32
     assert str([5, 8, 2]) == "[5, 8, 2]"
33
     assert str(1.1 + 2.2) != "3.3"
34
     assert str() == ""
37
     s = "="
     x = id(s)
     s = s * 20
41
     y = id(s)
42
     print(s)
43
     assert x != y
44
     s = "hello"
     assert s[3] == "1"
47
     assert s[-1] == "o"
```

## Float

```
        ● use_of_floatpy U X
        ● use_of_bytes.py U
        ◆ mindows/c/User/xxy01/repo/week05
        — □ X

        ● use_of_floatpy > ...
        1.666666666666667 c.class 'float'> 0.9046.156814773
        ... (66666666666667 c.class 'float'> 0.9046.156814773
        ... (100 min ve. of_float.py (veek05) (main)
        ... (100 min vee.of_float.py (veek05) (main)
        ... (100 min vee.of_float.py (veek05) (main)
        ... (100 min veek05) (main)
        ..
```

# List

```
miNGW64/c/Users/zyG1/repo/weekG5

[2, 5, 'a', 'c']
[-a', 'c', 2, 5]
False
unsupported operand type(s) for -: 'list' and 'list'
[2, 5, 2, 5, 2, 5]
[4, 25, 9]
(weekG5)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       _ ×
                                     print(1[2])
                                                                                                                                                                                                                                                                                                                                                                                      (week05)
xzy010xzy MINGW64 ~/repo/week05 (main)
$ python use_of_list.py
[1, 5, 'abc']
                                    try:
print(1[3])
                                    except IndexError as e:
print(e)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Copile
                                                                                                                                                                                                                                                                                                                                                                                      b
[2, 5, 'a', 'c']
['a', 'c', 2, 5]
False
                                 print(1[-1])
print(1[-1][1])
                                                                                                                                                                                                                                                                                                                                                                                    False unsupported operand type(s) for -: 'list' and 'list' [2, 5, 2, 5, 2, 5] [4, 25, 9] spenerator object (genexpr) at 0x000001DFAA7135E0> (meek05)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 oletions
                                 a = [2, 5]
b = ["a", "c"
print(a + b)
                                                                                                                                                                                                                                                                                                                                                                                    xzy01@xzy MINGW64 ~/repo/week05 (main)
$ python use_of_list.py
[1, 5, 'abc']
                                     print(b + a)
print(a + b == b + a)
                                                                                                                                                                                                                                                                                                                                                                                  abc b [2, 5, 'a', 'c'] [2, 4, 'c', 2, 5] False unsupported operand type(s) for -: 'list' and 'list' [2, 5, 2, 5, 5, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4, 5] [4
                                       print(a - b)
except TypeError as e:
                                    a = [2, 5]
b = ["a", "c"]
print(a * 3)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   product improvement. You can change
                                 a = [2, 5, 3]
b = [i**2 for i in a]
print(b)
                                     b = [i**2 for i in a if i < 4]
print(b)
```

### Dic

## Tuple

```
use_of_dict.py  MINGW64:/c/Users/xzy01/repo/week05
                                                                                                               $ python use_of_tuple.py
(1, 'a', 3.14)
<class 'tuple'>
1 t = (1, "a", 3.14)
2 print(t)
                                                                                                             print(type(t))
       print(t[0])
                                                                                                              TATA
TypeError: 'tuple' object does not support item assignment (week05)
**ExyOLBAXZY MINGW64 ~/repo/week05 (main)
$ python use_of_tuple.py
(1, 'a', 3.14)
**Class 'tuple'>
        print(t[1])
        print(t[2])
       try:
t[0] = 9
except TypeError as e:
                                                                                                              a
3.14
'tuple' object does not support item assignment
(weekOS)
XzyOl&xzy MINGw64 -/repo/weekOS (main)
$ python use_of_tuple.py
(1, 'a', 3.1")
<class 'tuple'>
             print(e)
       d = {}
d["abc"] = 5
d[7] = 100
                                                                                                              a
3.14
'tuple' object does not support item assignment
{'abc': 5}
(week05)
xzyOl@xzy MINGW64 -/repo/week05 (main)
5 python use_of_tuple.py
{'1, 'a'. 3.10}
<class 'tuple'>
1

         print(d)
                                                                                                              a
3.14
'tuple' object does not support item assignment
{'abc': 5, 7: 100}
(weekOS)
xzyOl8xzy MINGW64 -/repo/weekOS (main)
```

```
use_of_str.py  MINGW64:/c/Users/xzy01/repo/week05
                                                                                                                                      □ >
                                                         try:
s = {1, [4], 7}
                                                          True
False
(week05)
                                                         except TypeError as e:
  print(e)
print(q)
                                                        (1, 2, 5)
True
False
(1, 2, 3, 5)
(2)
(week05)
xzy0128xzy MINGW64 ~/repo/week05 (main)
5 python use_of_set_py
(1, 4, 7)

(1, 4, 5)
(1, 2, 5)
(1, 2, 5)
True

print(s)
print(s)
print(2 in s)
print(3 in s)
                                                         print(s | s2)
print(s & s2)
print(s ^ s2)
                                                                                                        settings at any time.
```

## Path

### Datetime