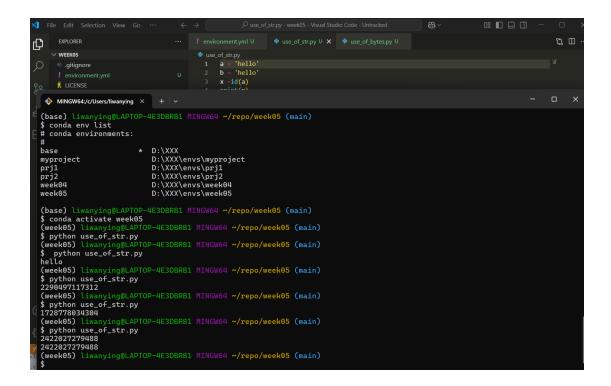
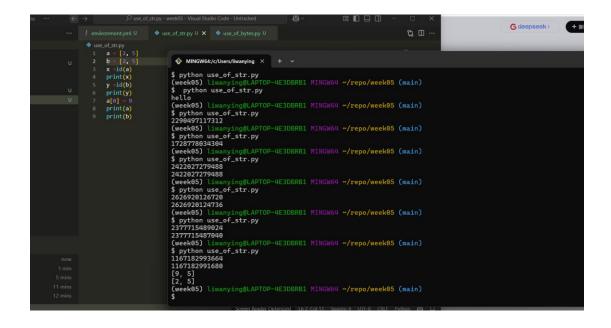
## 学习笔记

```
t, Ш
Ð
                                                                              use_of_str.py
    a = 'hello'
    print(a)
         ∨ WEEK05
            gitignore

↑ LICENSE
 6
    ♦ MINGW64:/c/Users/liwanying × + ∨
  done
 done
#
# To activate this environment, use
#
# $ conda activate week05
#
# To deactivate an active environmen
#
# $ conda deactivate
      To deactivate an active environment, use
  (base) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~/repo/week05 (main) $ conda env list # conda environments: # base * D:\XXX
                                               * D:\XXX
D:\XXX\envs\myproject
D:\XXX\envs\prj2
D:\XXX\envs\week04
D:\XXX\envs\week05
  myproject
prj1
prj2
week04
 (base) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~/repo/week05 (main) $ conda activate week05 (week05) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~/repo/week05 (main) $ python use_of_str.py (week05) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~/repo/week05 (main) $ python use_of_str.py
  $ python use_of_str.py
hello
 (week05) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~/repo/week05 (main)
```

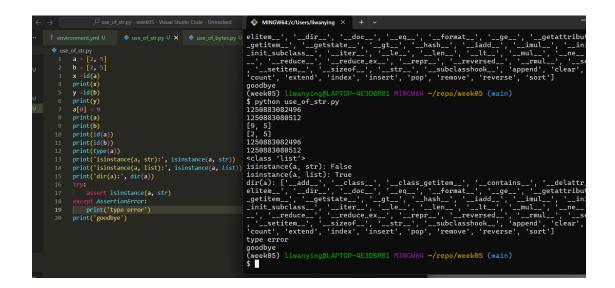




```
MINGW64:/c/Users/liwanying ×
                       use_of_sti
                                      [2, 5]
                                     [2, 5]
(week05) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~/repo/week05 (main)
$ python use_of_str.py
2017293506816
2017293504832
[9, 5]
[2, 5]
2017293506816
2017293504832
print(x)
y = id(b)
print(y)
a[0] :
print(a)
print(b)
print(id(a))
print(id(b))
print(type(a))
print(isinstance(a, str))

2017293504832
(week05) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~/repo/week05 (main)
$ python use_of_str.py
2290598746368
2290598744384
[9, 5]
[2, 5]
2290598746368
2290598744384
                                      2017293504832
                                      2290598744384
<class 'list'>
                                      (week05) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~/repo/week05 (main)
                                      $ python use_of_str.py
                                      1437991704832
                                      1437991702848
                                      [9, 5]
[2, 5]
1437991704832
1437991702848
<class 'list'>
                                     (week05) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~/repo/week05 (main)
```

```
2911066591552
<class 'list'>
False
dir(a): ['__add__', '__class__', '__class_getitem__', '__contains__', '__delattr__', '__d
elitem__', '__dir__', '__doc__', '__eq__', '__format__', '__ge__', '__getattribute__', '_
_getitem__', '__getstate__', '__gt__', '__hash__', '__iadd__', '__imul__', '__init__', '_
_init_subclass__', '__iter__', '__le__', '__len__', '__ltt__', '__mul__', '__ne__', '__new
__', '__reduce__', '__reduce_ex__', '__repr__', '__reversed__', '__rmul__', '__setattr__'
, '__setitem__', '__sizeof__', '__str__', '__subclasshook__', 'append', 'clear', 'copy',
'count', 'extend', 'index', 'insert', 'pop', 'remove', 'reverse', 'sort']
(week05) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~/repo/week05 (main)
$ python
Python 3.12.9 | packaged by conda-forge | (main, Mar 4 2025, 22:37:18) [MSC v.1943 64 bi
t (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> print(32)
32
>>> print(str(32))
32
>>> print(str(32))
```



```
if self.quitting: raise BdbQuit

buse.of.str.py

print('字面值')

s = 'university'
print(isinstance(s, str))
assert type(s) is str

print(f-string')
s x = 'Tom'
print(s)
print(s)
print(s)
print(s)
print(s)
s = 'a\tb'
print('TAB', s)

minimum self.str.py
print('TAB', s)

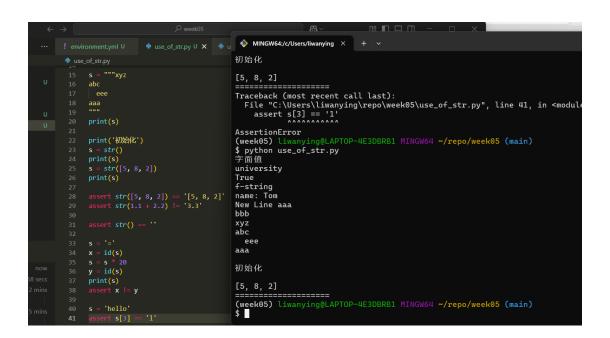
m
```

```
♥ use_of_str.py
1 print('字面值')
                               TAB a b
(week05) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~/repo/week05 (main)
     print(s) $ python use_of_str.py 字面值
                               university
                               True
     print('f-string')
x = 'Tom'
s = f'name: {x}'
                               f-string
                               name: Tom
New Line aaa
bbb
                               (week05) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~/repo/week05 (main) $ python use_of_str.py
字面值
      print('New Line', s)
                               university
                               True
f-string
                               name: Tom
New Line aaa
                               bbb
                               xyz
abc
                                 eee
                               aaa
                               (week05) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~/repo/week05 (main)
$ |
```

```
! environment.yml U × • use_of_str.p name: Tom
                                New Line aaa
bbb
abc
     print(isinstance(s, str)) aaa
                                初始化
     print('f-string')
                                (week05) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~/repo/week05 (main)
$ python use_of_str.py
字面值
     x = 'Tom'
s = f'name: {x}'
                                university
True
f-string
     print('New Line', s)
                                name: Tom
New Line aaa
bbb
     s = """xyz
abc
eee
aaa
                                abc
                                 eee
                                初始化
     print('初始化')
     s = str()
print(s)
                                [5, 8, 2]
(week05) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~/repo/week05 (main)
$ a 
     s = str([5, 8, 2])
print(s)
```

```
xyz
abc
9  s = f'name: {x}'
10  print(s)
                                            eee
初始化
                                           [5, 8, 2]
20
(week05) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~/repo/week05 (main)
$ python use_of_str.py
字面值
                                           university
                                           True
f-string
    print('初始化')
s = str()
print(s)
s = str([5, 8, 2])
                                           name: Tom
New Line aaa
                                           bbb
                                           xyz
abc
    assert str([5, 8, 2]) == '[5, 8, 2]'
assert str(1.1 + 2.2) != '3.3'
                                           aaa
                                           初始化
                                           [5, 8, 2]
                                           (week05) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~/repo/week05 (main)
$ |
```

```
s = s * 20
                                                 File "D:\XXX\envs\week05\Lib\bdb.py", line 100, in trace_dispatch return self.dispatch_line(frame)
                                                 File "D:\XXX\envs\week05\Lib\bdb.py", line 125, in dispatch_line if self.quitting: raise BdbQuit
                                              bdb.BdbQuit
(week05) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~/repo/week05 (main)
$ python use_of_str.py
字面值 ..
    print('初始化')
23 s = str()
24 print(s)
25 s = str([5, 8, 2])
26 print(s)
                                               university
                                              True
f-string
name: Tom
New Line aaa
bbb
    assert str([5, 8, 2]) == '[5, 8, 2]'
assert str(1.1 + 2.2) |= '3.3'
                                               xyz
abc
                                               aaa
                                               初始化
                                               [5, 8, 2]
                                               (week05) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~/repo/week05 (main)
$
```



```
🕏 use_of_str.py U 🗴 🐞 u 🔷 MINGW64:/c/Users/liwanying X + +
初始化
                                           [5, 8, 2]
========
    assert str([5, 8, 2]) == '[5, 8, 2]'
assert str(1.1 + 2.2) != '3.3'
                                           s = '='
x = id(s)
s = s * 20
y = id(s)
print(s)
                                           True
f-string
                                           name: Tom
New Line aaa
bbb
                                           xyz
abc
     s = 'hello'
assert s[3] == '1'
assert s[-1] == 'o'
assert s[:3] == 'hel'
                                             eee
                                           aaa
                                           初始化
                                           [5, 8, 2]
                                           string index out of range HELLO
                                           (week05) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~/repo/week05 (main) $ |
     s = 'hello'
     u = s.upper()
```

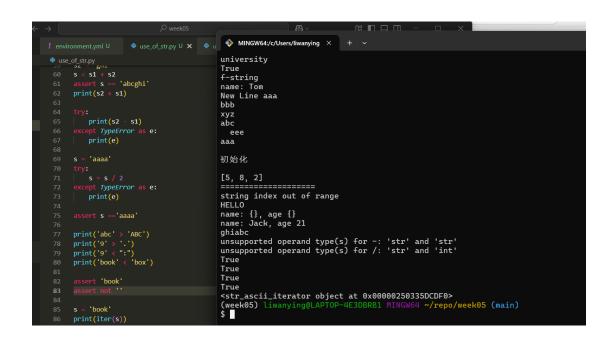
```
## Comparison of the content of the
```

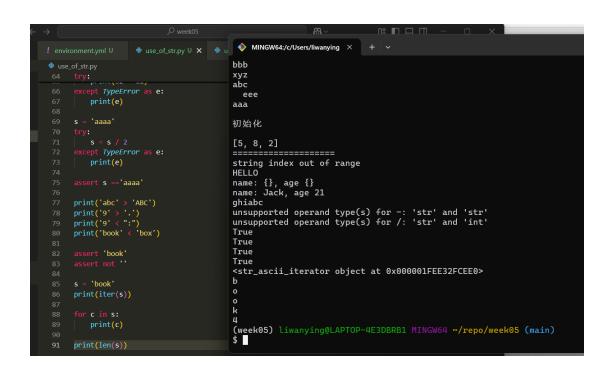
```
print(e)
41 assert s[3] == '1'
42 assert s[-1] == '0'
43 assert s[:3] == 'hel'
44 try:
                                                            NameError: name 'e' is not defined (week05) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~/repo/week05 (main) $ python use_of_str.py 字面值 university
      s[5]
except IndexError as e:
print(e)
                                                            True
f-string
                                                            name: Tom
New Line aaa
bbb
      s = 'hello'
u = s.upper()
                                                            xyz
abc
      t = 'name: {}, age {}'
      print(t)
t1 = t.format('Jack', 21)
                                                            aaa
                                                            初始化
                                                            [5, 8, 2]
========
                                                            string index out of range HELLO
      s = s1 + s2
assert s == 'abcghi'
print(s2 + s1)
                                                            HELLO
name: {}, age {}
name: Jack, age 21
ghiabc
                                                            unsupported operand type(s) for -: 'str' and 'str'
(week05) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~/repo/week05 (main)
       print(s2 - s1)
except TypeError as e:
   print(e)
```

```
use_of_str.py
51 print(u)
  51 print(u)
52
53 t = 'name: {}, age {}'
54 print(t)
55 t1 = t.format('Jack', 21)
56 print(t1)
57
                                                      True
f-string
name: Tom
New Line aaa
bbb
  xyz
abc
                                                        eee
                                                       初始化
         print(s2 - s1)
except TypeError as e:
print(e)
                                                       [5, 8, 2]
                                                       string index out of range HELLO
       s = 'aaaa'
try:
    s = s / 2
except TypeError as e:
    print(e)
                                                      name: {}, age {}
name: Jack, age 21
                                                      ghiabc
unsupported operand type(s) for -: 'str' and 'str'
unsupported operand type(s) for /: 'str' and 'int'
True
(week05) liwanying@LAPTOP-4E3DBR81 MINGW64 ~/repo/week05 (main)
$ ||
         assert s == 'aaaa'
```

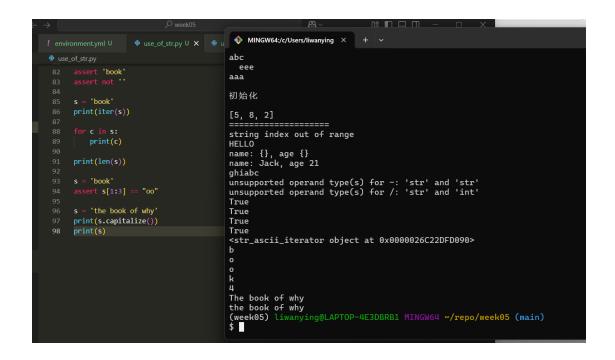
```
-
$ python use_of_str.py
字面值
                                                  university
True
f-string
print(t)
t1 = t.format('Jack', 21)
print(t1)
                                                  name: Tom
New Line aaa
bbb
s1 = 'abc'
s2 = 'ghi'
s = s1 + s2
assert s == 'abcghi'
print(s2 + s1)
                                                   xyz
                                                    eee
                                                   aaa
                                                  初始化
 print(s2 - s1)
except Type:
     ccept TypeError as e:
    print(e)
                                                   string index out of range
                                                   HELLO
                                                  HELLO
name: {}, age {}
name: Jack, age 21
ghiabc
  rry:
    s = s / 2
except TypeError as e:
    print(e)
                                                  unsupported operand type(s) for -: 'str' and 'str' unsupported operand type(s) for /: 'str' and 'int'
                                                  True
True
  assert s == 'aaaa'
                                                   (week05) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~/repo/week05 (main)
 print('abc' > 'ABC')
print('9' > '.')
print('9' < ":")</pre>
```

```
## Ownered ## Ownered
```





```
b-fintech/courses/blob/main/01-beginner/05.tutorial.md
                                                                                       use_of_str.py
                                                 bbb
                                                 xyz
abc
        s = 'aaaa'
try:
    s = s / 2
except TypeError as e:
    print(e)
                                                 aaa
                                                 初始化
                                                 [5, 8, 2]
                                                              =======
                                                 string index out of range
HELLO
        print('abc' > 'ABC')
print('9' > '.')
print('9' < ":")
print('book' < 'box')</pre>
                                                 name: {}, age {}
name: Jack, age 21
ghiabc
                                                 unsupported operand type(s) for -: 'str' and 'str' unsupported operand type(s) for /: 'str' and 'int'
         assert 'book'
assert not ''
                                                  True
                                                  True
                                                  True
                                                  True
                                                  <str_ascii_iterator object at 0x000002CD01D5D000>
                                                 (week05) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~/repo/week05 (main)
$ |
        s = 'book'
assert s[1:3] == "oo"
```

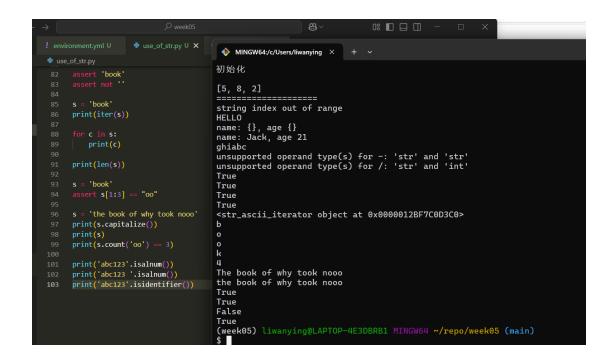


```
♦ MINGW64:/c/Users/liwanying × + ∨
                                              HELLO
                                             name: {}, age {}
name: Jack, age 21
                                              ghiabc
s = 'book'
                                              unsupported operand type(s) for -: 'str' and 'str' unsupported operand type(s) for /: 'str' and 'int'
                                              True
True
True
                                              <str_ascii_iterator object at 0x000002BB6925D1B0>
s = 'book'
assert s[1:3] == "oo"
s = 'the book of why took nooo'
print(s.capitalize())
                                              The book of why took nooo the book of why took nooo
print(s.count('oo') == 3)
breakpoint()
                                             True
--Return--
> c:\users\liwanying\repo\week05\use_of_str.py(100)<module>()->None
-> breakpoint()
                                              (Pdb) p s

'the book of why took nooo'

(Pdb) p s.endswith('why')
                                              False
(Pdb) p s.endswith('nooo')
                                              True
(Pdb)
```

```
♦ MINGW64:/c/Users/liwanying × + ∨
                                          aaa
                                          初始化
s = 'book'
                                          string index out of range
HELLO
                                          name: {}, age {}
name: Jack, age 21
                                          ghiabc
                                          unsupported operand type(s) for -: 'str' and 'str' unsupported operand type(s) for /: 'str' and 'int'
s = 'book'
assert s[1:3] == "oo"
                                          True
True
s = 'the book of why took nooo'
print(s.capitalize())
                                          True
                                           <str_ascii_iterator object at 0x000002027FC6D240>
print('abc123'.isalnum())
                                          The book of why took nooo the book of why took nooo
                                          True
True
(week05) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~/repo/week05 (main)
$ |
```



```
### Print(s)

##
```