```
(base) DELL@DESKTOP-8MOG904 MINGW64 ~/repo
$ git clone git@gitcode.com:zs_amber/week85.git
Cloning into 'week85'...
remote: Enumerating objects: 5, done.
remote: Counting objects: 180% (5/5), done.
remote: Compressing objects: 180% (5/5), done.
remote: Total 5 (delta 0), reused 5 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (5/5), 8.44 KiB | 4.22 MiB/s, done.

(base) DELL@DESKTOP-8MOG904 MINGW64 ~/repo
$ ls - l
total 21
drwxr-xr-x 1 DELL 197121 0 3月 24 22:27 myproject/
drwxr-xr-x 1 DELL 197121 0 3月 24 21:02 prj1/
--wr-r--r- 1 DELL 197121 0 3月 24 21:02 prj1/
drwxr-xr-x 1 DELL 197121 0 3月 17 18:54 week01/
drwxr-xr-x 1 DELL 197121 0 3月 71 18:54 week01/
drwxr-xr-x 1 DELL 197121 0 3月 71 18:54 week01/
drwxr-xr-x 1 DELL 197121 0 3月 21 22:50 week03/
drwxr-xr-x 1 DELL 197121 0 3月 31 19:24 week01/
drwxr-xr-x 1 DELL 197121 0 4月 7 17:59 week05/
```



```
done
#
# To activate this environment, use
# $ conda activate week05
#
# To deactivate an active environment, use
#
# $ conda deactivate
```

```
a = [2, 5]
                             $ python use_of_str.py
2507844639920
     b = [2, 5]
     x = id(a)
                             (week05)
    print(x)
                             DELL@DESKTOP-8NOG904 MI
                             $ python use_of_str.py
2187806399664
2187806399664
    y = id(b)
    print(y)
    a[0] = 9
    print(a)
                             (week05)
     print(b)
9
                             $ python use_of_str.py
                             2055110203648
                             2055110201664
                             (week05)
                             $ python use_of_str.py
2450380232960
                             2450380232900
2450380230976
[9, 5]
[2, 5]
                             (week05)
                                ELL@DESKTOP-8NOG904 M:
       a = [2, 5]
b = [2, 5]
x = id(a)
                              $ python use_of_str.py
2055110203648
                              2055110201664
       print(x)
y = id(b)
                              (week05)
                               DELL@DESKTOP-8NOG904 M
       print(y)
                              $ python use_of_str.py
2450380232960
       a[0] = 9
       print(a)
                              2450380230976
                              [9, 5]
[2, 5]
(week05)
       print(b)
       print(id(a))
       print(id(b))
                             python use_of_str.py
1760949049600
1760949047616
[9, 5]
[2, 5]
1760949049600
                              1760949047616
                              (week05)
                            $ python use_of_str.py
2347638724864
    print(type(a))
                            2347638722880
                            [9, 5]
[2, 5]
2347638724864
2347638722880
                           <class 'list'>
                            (week05)
   print(isinstance(a, str))
                                         $ python use_of_str.py
1750176504064
                                         1750176502080
[9, 5]
[2, 5]
1750176504064
                                         1750176502080
                                          class 'list'>
                                      False
                                         (week05)
    print("isinstance(a,str):", isinstance(a, str))
                                                                2252338041152
                                                                [9, 5]
[2, 5]
2252338043136
                                                                2252338041152
                                                                <class 'list'>
                                                               isinstance(a,str): False
                                                                (week05)
```

```
dir(a): ['_add_', '_class_', '_class_getitem_', '_contains_', '_delattr_', '
, '_eq__', '_format_', '_ge.', '_getattribute_', '_getitem_', '_getstate_',
'_imul_', '_init_', '_init_subclass_', '_iter_', '_le_', '_len_', '_lt_
'_reduce__', '_reduce_ex_', '_repr_', '_reversed_', '_rmul_', '_setattr__',
tr__', '_subclasshook_', 'append', 'clear', 'copy', 'count', 'extend', 'index', 'ins
                                                                                         'sort']
           assert isinstance(a, str)
                                                                                        Traceback (most r
                                                                                            File "C:\Users\
                                                                                                assert isinst
                                                                                                              . . . . . . .
                                                                                        AssertionError
                                                                                        (week05)
                                                                              , '__eq__', '__format__'
'__imul__', '__init__',
'__reduce__', '__reduce
tr__', '__subclasshook__
'sort']
17
        assert isinstance(a, list)
        print("goodbye")
                                                                              goodbye
                                                                               (week05)
                                                                                                  __1mu L__'
                                                                                                '__reduce__
                 assert isinstance(a, str)
                                                                                             tr__', '__sul
'sort']
          except AssertionError:
                 print("type error")
 20
                                                                                              type error
          print("goodbye")
                                                                                             goodbye
                                                                                              (week05)
         except AssertionError:
                                                                                             'sort']
                breakpoint()
20
                                                                                            > c:\users\
                print("type error")
                                                                                             -> print("t
         print("goodbye")
                                                                                            (Pdb) pa
                                                                                             [9, 5]
(Pdb)
                                                       python use_of_str.py
     print("字面值")
                                                      (week05)
                                                               SKTOP-8NOG904 MIN
   print(s)
                                                     $ python use_of_str.py
    print(isinstance(s, str))
    assert type(s) is str
                                                     aaa
                                                     (week05)
                                                      DELL@DESKTOP-8NOG904 MIN
                                                     $ python use_of_str.py
                                                      字面值
                                                     (week05)
                                                               SKTOP-8NOG904 MIN
                                                     DELL@DESKTOP-8NOG904 M
$ python use_of_str.py
                                                     子面值
                                                     iniversity
                                                     True
(week05)
                                                         SyntaxError: invalid synt
      x = "Tom"
      s = f"name:{x}"
                                                         (week05)
                                                         DELL@DESKTOP-8NOG904 MIN
      print(s)
                                                         $ python use_of_str.py
                                                         字面值
                                                         iniversity
                                                         True
                                                        f-string
                                                        name:Tom
```

```
True
    print("Tab", s)
                                          f-string
                                         Taba b
                                          (week05)
                                                NewLine aaa
    s = \text{"aaa} \setminus \text{nbbb"}
                                                bbb
    print("NewLine", s)
                                                (week05)
                                       三个引号做批量注释
    print(type(a))
print("sinstance(a,str):", isinstance(a, str)
print("isinstance(a,list):", isinstance(a, list)
print("sinstance(a, str, list)))
print("dir(a):", dir(a))
     breakpoint()
print("type error")
                                            [5, 8, 2]
 print("初始化")
                                            (week05)
 s = str()
                                            DELL@DESKT
print(s)
 s = str([5, 8, 2])
print(s)
                                          /repo/week05 (main)
$ python -m pdb use_of_str.py
> c:\users\dell\repo\week05\use_of_str.py(1)<module>()
-> """
(Pdb) p str(1.1+2.2)
'3.3000000000000003'
Traceback (most recent call last):
  File "C:\Users\DELL\repo\week05\use_of_str.py", line 49, in <module>
    assert str([5, 8, 2]) == "[5,8,2]"
AssertionError
     s = "="
                              [5, 8, 2]
     s = s * 20
                             ______
     print(s)
                             (week05)
                             DELL ODESKTOD-8NOG904
                                  [5, 8, 2]
          assert s[:3] == "
         assert s[4] == s[ HELLO
                                  (week05)
          s = "hello"
                                  DELL@DESKTOP-8NOG904
  68
         u = s.upper()
                                  $
          print(u)
                                       hello
   t = "name {},age{}"
                                       name:{},age{}
   print(t)
                                      name:Jack,age21
   t1 = t.format("Jack", 21)
                                       (week05)
   print(t1)
                                           L@DESKTOP-8NOG
```

遇见问题 1: 列表转换字符串会出现空格,加上空格后解决问题。

```
True
print(iter(s))
                        f-string
                        name:Tom
                        Taba b
print(c)
                        NewLine aaa
                        bbb
                        初始化
                        [5, 8, 2]
                        HELLO
                        hello
                       name:{},age{}
name:Jack,age
                        ghiabc
                        <str_ascii_it
                       b
                        (week05)
```

print(s[0])

breakpoint()

```
$ which python
/d/Anaconda/envs/week05/python
    from pathlib import Path
                                                  (week05)
DELL@DESKTOP-8NOG904 MINGW64 ~/repo/week05 (main)
   print(s)
print(s[0])
                                                  $ python use_of_bytes.py
b'hello'
                                                  104
                                                  --Return--
> c:\users\dell\repo\week05\use_of_bytes.py(8)<module>()->None
    p = Path("/d/Anaconda/envs/week05/python")
breakpoint()
                                                  -> breakpoint()
(Pdb) p p.exists()
                                                                                                          遇见问题 2: 路径改完格式后仍
                                                  (Pdb) import wat
(Pdb) wat / [

*** SyntaxError: '[' was never closed
(Pdb) wat / p
                                                                                                          然显示不存在,后发现需要退出
                                                                                                          再进一次 pdb, 已解决。
                                                                     WindowsPath('/d/Anaconda/envs/week05/python')
(Pdb) p p.exists()
False
(Pdb)
  p = Path("D:\\Anaconda\\envs\\week05\\python.exe")
  breakpoint()
                                                             return
                                                           File "D
if se
                                                         bdb.BdbQui
(week05)
                                                         $ python u
b'hello'
                                                       104
93184
p = Path("environment.yml")
s = p.read_bytes()
                                                                                bdb.Bdb
                                                                                (week05
                                                                                DELLOD
```

\$ pythob'hello

104 93184 110

```
Int
                                   File "C:\Users
       assert 5
                                     assert 0
      assert 0
  12
                                 AssertionError
                                 (week05)
                                                           float
                            DELL@DESKTOP-8NOG904 MINGW64
                            $ python use_of_float.py
     print(x, type(x))
                            <class 'float'>
<class 'float'>
11
                            (week05)
                            <class 'float'>
                            print(x, type(x))
                            0.7366629275130295
                            (week05)
    x = random.random()
                            DELL@DESKTOP-8NOG904 MINGW64 ~/repo/
15
    print(x)
18
     nan = float("nan")
                           nan 为特殊 float 值,表示缺失
 assert 0.0
           ...
 pinf = float("inf")
                          Pinf 正无穷 ninf 负无穷
 print(3.14e2)
 print(pinf > 1e200)
 ninf = float("-inf")
 print(ninf)
                                               Bool
                                                              整数的子类
                     (week05)
                     DELL@DESKTOP-8NOG904 MINGW
    print(t, f)
                     (week05)
    print(type(t))
    print(isinstance(t, int))
                     $ python use_of_bool.py
                     True False
                     (week05)
                     $ python use_of_bool.py
                     True False
                     <class 'bool'>
                     True
```

(week05)

```
$ python use [1, 5, 'abc']

print(b)

print(b)

[1, 5, 'abc']

[1, 25, 9]

[4, 9]

(week05)
```

```
DELL@DESKTOP-8NOG904 MINGW64
    d = {"a": 1, "bb": 5,
                         $ python use_of_dict.py
    print(d)
                         {'a': 1,
                                    'bb': 5, 'cat': 3}
   print(type(d))
                         (week05)
                         DELL@DESKTOP-8NOG904 MINGW64
    for a in d:
                         $ python use_of_dict.py
       print(a)
                         {'a': 1, 'bb': 5, 'cat': 3} <class 'dict'>
8
                         (week05)
                         DELL@DESKTOP-8NOG904 MINGW64
                         $ python use_of_dict.py
                         {'a': 1, 'bb': 5, 'cat': 3} <class 'dict'>
                         bb
                         cat
```

Direct

Tuple

不支持赋值 与列表的区别

Set

```
s = {5, 2, 2, 1, 1}
s1 = {3, 2}
print(s | s1)
print(s & s1)
print(s ^ s1)
print(s ^ s1)
(week05)
```

print(date.today())

Path

(week05) DELL@DESKTOP-8NOG904 MINGW64

\$ python use_of_path.py

```
t1 = date.today()

t2 = date(2025, 11, 11)

td = t2 - t1

print(td)

print(type(td))

s1 = "2024-3-12"

s2 = "2023-7-6"

d1 = datetime.strptime(s1, "%Y-%m-%d print(d1)
print(d2)

print(d2)

t1 = date.today()

pDELL@DESKTOP-8NOG904 MINGW64

$ python use_of_datetime.timedelta'> (week05)

DELL@DESKTOP-8NOG904 MINGW64

class 'datetime.timedelta'> (week05)

DELL@DESKTOP-8NOG904 MINGW64 ~//
$ python use_of_datetime.py
217 days, 0:00:00

class 'datetime.timedelta'> 217

(week05)

DELL@DESKTOP-8NOG904 MINGW64 ~//
$ python use_of_datetime.py
217 days, 0:00:00

class 'datetime.timedelta'> 217

(week05)

DELL@DESKTOP-8NOG904 MINGW64 ~//
$ python use_of_datetime.py
217 days, 0:00:00

class 'datetime.timedelta'> 217

(week05)

DELL@DESKTOP-8NOG904 MINGW64 ~//
$ python use_of_datetime.py
217 days, 0:00:00

class 'datetime.timedelta'> 217

(week05)
```

217

(week05)

2024-03-12 00:00:00 2024-03-12 00:00:00