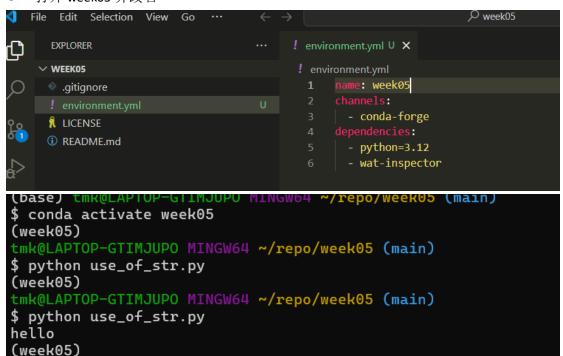
● 复制到 week05

```
name: week04
channels:

    conda-forge

dependencies:
 python=3.12
 - wat-inspector
(base) tmk@LAPTOP-GTIMJUPO MINGW64 ~/repo
 cp week04/environment.yml week05/
(base) tmk@LAPTOP-GTIMJUPO MINGW64 ~/repo
ls -l
total 20
                           3月 20 23:37 myproject/
drwxr-xr-x 1 tmk 197121 0
drwxr-xr-x 1 tmk 197121 0
                           3月 17 23:03 repo/
-rw-r--r-- 1 tmk 197121 0
                               7 21:05 script1.py
                           3月
drwxr-xr-x 1 tmk 197121 0
                           3月
                               7 22:40 week01/
drwxr-xr-x 1 tmk 197121 0
                           3月 17 23:44 week02/
drwxr-xr-x 1 tmk 197121 0
                           3月 20 23:59 week03/
                              30 22:53 week04/
drwxr-xr-x 1 tmk 197121 0
                           3月
drwxr-xr-x 1 tmk 197121 0
                           4月 13 10:00 week05/
(base) tmk@LAPTOP-GTIMJUPO MINGW64 ~/repo
ls -l week05
total 25
-rw-r--r-- 1 tmk 197121
                           91
                               4月 13 10:00 environment.yml
                               4月 13 09:58 LICENSE
rw-r--r-- 1 tmk 197121 18805
                               4月 13 09:58 README.md
-rw-r--r-- 1 tmk 197121
                         2239
(base) tmk@LAPTOP-GTIMJUPO MINGW64 ~/repo
```

● 打开 week05 并改名



● 运行,字符串有缓存,id 一样

```
mk@LAPTOP-GTIMJUPO MINGW64 ~/repo/week05 (main)
 python use_of_str.py
100462836864
week05)
mk@LAPTOP-GTIMJUPO MINGW64 ~/repo/week05 (main)
 python use_of_str.py
625959582848
week05)
mk@LAPTOP-GTIMJUPO MINGW64 ~/repo/week05 (main)
$ python use_of_str.py
2625959582848
(week05)
tmk@LAPTOP-GTIMJUPO MINGW64 ~/repo/week05 (main)
$ python use_of_str.py
1379467025536
1379467025536
(week05)
● 类型 type, isinstance, dir 等
tmk@LAPTOP-GTIMJUPO MINGW64 ~/repo/week05 (main)
$ python use_of_str.py
1987999832320
1987999830336
[9, 5]
[2, 5]
1987999832320
1987999830336
<class 'list'>
(week05)
tmk@LAPTOP-GTIMJUPO MINGW64 ~/repo/week05 (main)
$ python use_of_str.py
2762696628480
2762696626496
[9, 5]
[2, 5]
2762696628480
2762696626496
<class 'list'>
False
(week05)
```

```
$ python use_of_str.py
2496739875072
2496739873088
[9, 5]
[2, 5]
2496739875072
2496739873088
<class 'list'>
isinstance(a, str): False
isinstance(a, list): True
```

```
a = [2, 5]
    b = [2, 5]
    x = id(a)
    print(x)
    y = id(b)
    print(y)
    a[0] = 9
    print(a)
    print(b)
     print(id(a)) # is it same as x?
     print(id(b)) # is it same as y?
11
     print(type(a))
12
     print('isinstance(a, str):', isinstance(a, str))
13
     print('isinstance(a, list):', isinstance(a, list))
     print(isinstance(a, (str, floot)))
15
     try:
         assert isinstance(a, str)
17
     except AssertionError:
         breakpoint()
19
20
         print('type error')
21
     print('goodbye')
```

● 字面、推导、初始化、运算、索引、返回

```
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
14
      s= 'aaa\nbbb'
15
      print('New Line', s)
17
18
19
      s = """xyz
21
      abc
22
        eee
23
      aaa
      .....
25
      print(s)
      print('初始化')
27
     s = str()
     print(s)
29
      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
35
     assert str() == ''
36
```

```
s = '='
38
    x = id(s)
    s = s *20
40
    y = id(s)
41
    print (s)
42
    assert x != y
43
44
    s = 'hello'
45
    assert s[3] =='l'
46
    assert s[-1] == 'o'
47
    assert s[:3] =='hel'
    assert s[4] == s[-1]
    try:
50
        s[5]
51
     except IndexError as e:
52
    print(e)
54
    s = 'hello'
    u = s.upper()
56
    print(u)
57
    print(s)
58
    t = 'name: {}, age {}'
60
    print(t)
61
    t1 = t.format('Jack', 21)
62
     print(t1)
```

● 验证属性,字节等

```
assert 'book'
96
97
98
     s = 'book'
99
     print(iter(s))
90
ð1
     for c in s:
ð2
     print(c)
93
ð4
     print(len(s))
ð5
     s = book'
96
27
     assert s[1:3] == "oo"
86
99
     s = 'the book of why took nooo'
10
     print(s.capitalize())
11
     print(s)
12
     print(s.count('oo') == 3)
13
14
     print('abc123'.isalnum())
15
     print('abc123 '.isalnum())
     print('abc123'.isidentifier())
16
17
     print('123abc'.isidentifier())
     print('abc_123'.isidentifier())
18
     print('abc-123'.isidentifier())
19
20
     q = ['rose', 'jack', 'bob']
21
22
     print(':'.join(q))
23
     s = 'rose:jack:bob'
24
     print(s.split(":"))
25
     assert s.partition(':') == ("rose ", ":", "jack:bob")
```

```
s =b'hello'
print(s)
print(s[0])
p = Path("/d/ana2/envs/week05/python")
s = p.read_bytes()
print(len(s))
p = Path("environment.yml")
s = p.read_bytes()
print(s[0])
s = b.decode()
assert isinstance(s, str)
b2 = s.encode()
assert isinstance(b2, bytes)
assert b2 == b
s = "你好"
b1 = s.encode("utf-8")
print(b1)
b2 = s.encode("gbk")
print(b2)
s = "abc你好<mark>曾"</mark>
print(s)
b = s.encode()
breakpoint()
```

● 加减乘除

```
1  i = 42
2  x = 5
3  y = 7
4  z = x + y
5
6  x = 5
7  y = 17
8  assert y // x == 3
9  assert y % x == 2
```

● 列表

```
b = a * 3
33
      print(f"{b=}")
      a[0] = 9
35
      print(a)
36
37
     print(b)
38
     a = [2, 5]
      b = [a] * 3
40
     print(f"{b=}")
41
      a[0] = 9
42
      print(a)
43
      print(b)
44
45
      a = [2, 5, 3]
46
      b = [i**2 for i in a]
47
     print(b)
48
      b = [i**2 \text{ for } i \text{ in a if } i < 4]
49
     print(b)
50
51
52
      a = [2, 5]
53
     b = [a] * 3
     print(f"{b=}")
54
     x= a.append(4)
55
      print(x)
56
57
      print(a)
```

```
d ={"a": 1, "bb": 5, "cat": 3}
     print(d)
     print(type(d))
     for a in d:
         print(a)
     for a in d:
         print(d[a])
     for a in d.values():
11
     print(a)
12
13
     1 = [a for a in d.items()]
14
     print(1)
15
     for k, v in d.items():
17
         print(k, v)
18
19
     breakpoint()
20
```

```
use_ot_pass.py
     from pathlib import Path
     from pprint import pprint
     p = Path(".")
 4
     print(p)
     print(p.exists())
     print(p.absolute())
     pprint(list.(p.iterdir()))
     p = Path('./datal')
     print(p.exists())
11
     p.mkdir(exist ok=True)
12
13
     print(p.exists())
     print(p.is_dir())
14
15
     p = Path(".")
     p2 = p / "REAME.md"
17
18
     print(p2)
19
     p3 = p2.absolute()
     print(p3)
20
21
```

```
✓ WEEK05

                                   1 from datetime import datetime, date, timedelta
 gitignore
                                      t1 = date.today()

    ↑ LICENSE

                                     t2 = date(2025, 11, 11)
① README.md
                                  6 print(td)
                                       print(type(td))
                                  8 print(td.days)
 use_of_dict.py
                                  use_of_float.py
 use_of_int.py
                                  14 print(d1)
                                  15 print(d2)
```