先 fork 课程创建环境,注意,git clone 在 repo文件夹下建立week05. 将 environment.yml 环境复制到 week05 下,并用 vscode 打开。

```
HUAWEI@LAPTOP-C5BM3AF9 MINGW64 ~/repo
$ cat week04/environment.yml No such file or directory
(base)
HUAWEI@LAPTOP-C5BM3AF9 MINGW64 ~/repo
$ cat names/environment.yml
name: names
channels:
  - conda-forge
dependencies:
  - python=3.12
  - wat-inspector(base)
HUAWEI@LAPTOP-C5BM3AF9 MINGW64 ~/repo
$ cp names/environment.yml week05/
(base)
```

把主目录调整到 week05,可以看得环境文件,然后配置环境。(conda env create)

```
(pase)
HUAWEI@LAPTOP-C5BM3AF9 MINGW64 ~/repo
$ cd week05
(base)
HUAWEI@LAPTOP-C5BM3AF9 MINGW64 ~/repo/week05 (main)
$ 1s -1
total 25
-rw-r--r-- 1 HUAWEI 197609 2239 Apr 6 22:59 README.md
-rw-r--r-- 1 HUAWEI 197609
                           91 Apr 6 23:07 environment.yml
(base)
HUAWEI@LAPTOP-C5BM3AF9 MINGW64 ~/repo/week05 (main)
$ conda env create
D:\STUDY\Anaconda3\Lib\argparse.py:2006: FutureWarning: `remote_def
eprecated and will be removed in 25.9. Use `conda env create --file
 action(self, namespace, argument_values, option_string)
```

创建两个文件

```
✓ WEEK05
♦ .gitignore
! environment.yml
↓ LICENSE
⑤ README.md
♦ use_of_bytes.py
↓ use_of_str.py
```

```
HUAWEI@LAPTOP-C5BM3AF9 MINGW64 ~/repo/week05 (main)
                            $ python use_of_str.py

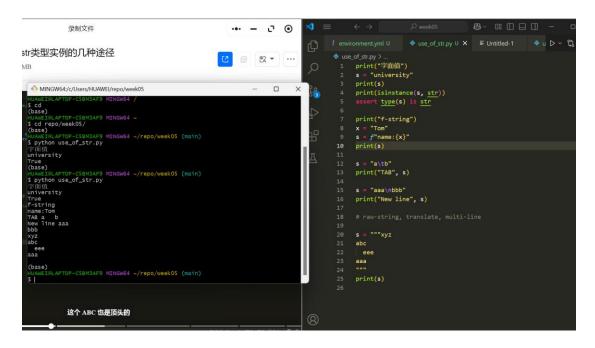
    use (base)

                                    @LAPTOP-C5BM3AF9 MINGW64 ~/repo/week05 (main)
                            $ python use_of_str.py
Traceback (most recent call last):
  File "C:\Users\HUAWEI\repo\week05\use_of_str.py",
    a = hello
a = "hello"
b = "hello"
                           HUAWEI@LAPTOP-C5BM3AF9 MINGW64 ~/repo/week05 (main)
$ python use_of_str.py
2279720313232
(base)
x = id(a)
                            NameError: name 'hello' is not defined. Did you mean:
print(x)
y = id(b)
print(y)
                                                             INGW64 ~/repo/week05 (main)
                            $ python use_of_str.py
2732471968144
2732471968144
(base)
                              UAWEI@LAPTUP-C5BM3AF9 MINGW64 ~/repo/week05 (main)
```

字面值

```
MINGW64:/c/Users/HUAWEI/repo/week05
                                                                                                                                                                                                                      (base)
                                                                                                                                                                                                                      | Under the control of the control o
use_of_str.py > ...
                                  print("字面值")
                                   s = "university"
                                                                                                                                                                                                                                                           QLAPTOP-C5BM3AF9 MINGW64 /
                                                                                                                                                                                                                        $ pwd
                                  print(s)
                                 print(isinstance(s, str))
                                                                                                                                                                                                                         (base)
                                  assert type(s) is str
                                                                                                                                                                                                                                                         @LAPTOP-C5BM3AF9 MINGW64 /
                                                                                                                                                                                                                        * cd
         6
                                                                                                                                                                                                                        (base)
                                                                                                                                                                                                                                                             LAPTOP-C5BM3AF9 MINGW64 ~
                                                                                                                                                                                                                        $ cd repo/week05/
                                                                                                                                                                                                                         (base)
                                                                                                                                                                                                                                                          @LAPTOP-C5BM3AF9 MINGW64 ~/repo/week05 (main)
                                                                                                                                                                                                                        $ python use_of_str.py
                                                                                                                                                                                                                       字面值
university
                                                                                                                                                                                                                       True
(base)
                                                                                                                                                                                                                                         WEI@LAPTOP-C5BM3AF9 MINGW64 ~/repo/week05 (main)
```

继续实践。



边写边运行,及时查看报错,有些错误可能是写错了或者看错了,如果发现不了可以借助 ai。

补充:规则下字母有排序大小,比如小写字母大于大写字母,老师展示了。

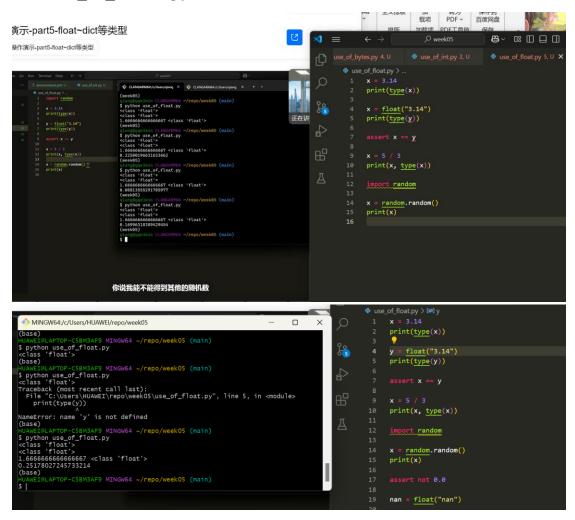
```
print("abc" > "ABC")
print("123" > "abcd")
print("9" > ".")
print("9" < ":")
print("book" < "box")</pre>
```

补充了迭代 for 循环,可以一直按 next。

二、use_of_bytes.py

```
🕏 use_c
                        ■ Untitled-1
Explorer (Ctrl+Shift+E)
 use_of_bytes.py > ...
       from pathlib import Path
  print(s[0])
  6
       p = Path("/d/STUDY/Anaconda3/python.ex
  7
       s = p.read_bytes()
       print(len(s))
  9
  10
       p = Path("environment.yml")
  11
       s = p.read_bytes()
  12
       print(s[0])
  13
  14
       s = b.decode()
  15
       assert isinstance(s, str)
  16
       breakpoint()
  17
```

四、use_of_float.py



接上文继续…

```
isinstance(t, <u>int</u>))
                                                                                             print(x, \underline{type}(x))
                   QIANQBQqm3win CLANGARM64 ~/repo/week05 (main)
$ python use_of_bool.py
True False
                                                                                             import random
                                                                                             x = random.random()
 MINGW64:/c/Users/HUAWEI/repo/week05
                                                                              print(x)
 assert not 0.0
                                                                                             nan = float("nan")
 (base)
HUAWEI@LAPTOP-C5BM3AF9 MINGW64 ~/repo/week05 (main)
print(\overline{nan + 3})
                                                                                             print(nan > 3)
                                                                                             print(nan < 3)</pre>
                                                                                             print(nan == 3)
                                                                                             pinf = float("inf")
                                                                                             print(3.14e-2)
                                                                                            print(pinf > 1e200)
print(pinf == pinf)
                                                                                            ninf = float("-inf")
       @LAPTOP-C5BM3AF9 MINGW64 ~/repo/week05 (main)
                                                                                             print(ninf)
```

五、use_of_bool.py

五、use_of_list.py

```
83 ∨ 0% □ □ □
                                                       use_of_list.py > ...
    \frac{1}{2} = [1, 5, "abc"]
    print(1)
    print(1[0])
    print(1[1])
    print(1[2])
       print(1[3])
10
     except IndexError as e:
       print(e)
11
12
13
    print(1[-1])
14
    print(1[-1][1])
    a = [2, 5]
17
    b = ["a", "c"]
    print(a + b)
20
    print(b + a)
    print(a + b == b + a)
    a = [2, 5]
24
    b = [5]
        print(a - b)
    except TypeError as e:
     print(e)
30
    a = [2, 5]
    b = a * 3
    a[0] = 9
    print(a)
34
    print(b)
```

六、use of dict.py

```
use_of_dict.py 4, U X use_of_float.py 1, U
                                           🕏 use_of_bool.py U 🖒 ∨ 🗘 🔲
use_of_dict.py > ...
 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()
     print(a)
     1 = [a for a in d.items()]
     print(1)
      for k,v in d.items()
         print(k,v)
     breakpoint()
21
      П
```

```
print(a - b)
except TypeError as e:
    print(e)
a = [2, 5]
b = a * 3
a = [2, 5]
b = a * 3
print(f"(b={b})")
a[0] = 9
print(a)
print(b)
a = [2, 5]
b = [a] * 3
print("(b=)")
a[0] = 9
print(a)
print(b)
a = [2, 5, 3]
b = [1**2 for i in a]
print(b)
b = [i**2 for i in a if i < 4]
print(b)
a = [2,5]
b = [a] * 3
print(f"(B=)")
x = a.append(4)
print(a)
print(b)
breakpoint()
```

七、use_of_tuple.py

```
🕏 use_of_tuple.py U 🗙 🕏 use_of_float.py 1, U 🕏 use_of_bool.py U 🗦 🗸 🗓 …
duse_of_tuple.py > ...
 1 t = (1, "a", 3.14)
  print(t)
    print(type(t))
     print(t[0])
     print(t[1])
     print(t[2])
 10 t[0]
11 except TypeError as e:
 12 print(e)
 14 d = {}
 15 d["abc"] = 5
 16 d[7] = 100
 17 q = [3, 1]
    d[q] = 21
 21 except TypeError as e:
 22 print(e)
     t = (3, 1)
d[t] = 21
 24
      print(d)
     print(d[3, 1])
 30 print(t)
     print(type(t))
```

八、use_of_set.py

```
🕏 use_of_bool.py U 🖒 🗸 🗓 …
  use_of_set.py U X
deluse_of_float.py 1, U
use_of_set.py > ...
      print(s)
      print(type(s))
      except TypeError as e:
      print(e)
      q = [1, 2, 1, 2, 5, 1]
      print(q)
      s = \underline{set}(q)
      print(s)
      s = \{5, 2, 1, 2, 2, 1\}
      print(s)
      print(2 in s)
      print(3 in s)
      s2 = {3, 2, 3}
      print(s | s2)
      print(s & s2)
```

九、use_of_path.py

```
use_of_path.py > ...
          from pathlib import Path
          from pprint import pprint
          p = Path(".")
          print(p)
          print(p.exists())
          print(p.absolute())
          pprint(list(p.iterdir())
                p = Path("./datal")
Д
                print(p.exists())
                p.mkdir()
                print(p.exists())
                print(p.ls_dir())
           p = Path(",")
           p2 = p / "README.md"
      19
           print(p2)
           p3 = p2.absolute()
           print(p3)
           breakpoint()
```

+, use_of_datetime.py

```
de use_of_datetime.py 2, U X
de use_of_float.py 1, U
                                               use_of_bool.p
use_of_datetime.py > ...
      from datetime import date, datetime
    t1 = date.today()
  4 t2 = date(2025, 11, 11)
  5 td = t2 - t1
    print(td)
      print(type(td))
      print(td.days)
    s1 = "2024-5-23"
     s2 = "2024-12-04"
 11
 12 d1 = datetime.strptime(s1, "%Y-%m-%d")
      s2 = datetime.strptime(s2, "%Y-%m-%d")
 13
      print(d1)
      print(d2)
       breakpoint()
 17
```