第五周学习笔记

本周内容较多,故而有的课上内容未及时截图,但含有自我实践内容并且课程所有代码 均在文件夹中

以下为课后实践内容

```
🕏 use_of_str1.py > ...

      lst = [1, 2, 3]
      # 列表字面值

      dct = {'a': 1, 'b': 2}
      # 字典字面值

      st = {1, 2, 3}
      # 集合字面值

      s = "hello"
      # 字符串字面值

                                              # 整数面值
       num = 42
        lst = [x**2 for x in range(5)]
        dct = {k: v*2 for k, v in {'a': 1, 'b': 2}.items()}
        st = \{x\%2 \text{ for } x \text{ in } [1, 2, 3, 4]\}
     lst = list() # 空列表
lst = list((1, 2, 3)) # 从元组转换
dct = dict(a=1, b=2) # 键值对初始化
st = set([1, 2, 2, 3]) # 去重初始化
s = str(42) # 从整数转换为字符串
       num = int("42")
                                                 # 从字符串转换为整数
        lst = [0] * 3
        num = 2 + 3 * 4
        sub_lst = lst[1:3]
        new_dct = {k: v for k, v in dct.items() if v > 1}
        lst = list(range(5))
        dct = dict.fromkeys(['a', 'b'], 0)
      s = " hello ".strip()
```

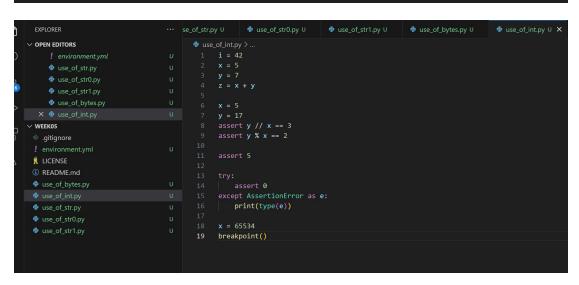
```
(base) wdhwl@wcx MINGW64 ~/hello
$ cat week04/environment.yml
name: week04
channels:
- conda-forge
dependencies:
- python=3.12
- wat-inspector(base) wdhwl@wcx MINGW64 ~/hello
$ cp week04/environment.yml week05/
(base) wdhwl@wcx MINGW64 ~/hello
$ ls -l week05
total 25
-rw-r-r-1 wdhwl 197609 91 4月 13 22:10 environment.yml
-rw-r-r-1 udhwl 197609 18805 4月 13 22:06 LICENSE
-rw-r-r-- 1 wdhwl 197609 2239 4月 13 22:06 README.md
(base) wdhwl@wcx MINGW64 ~/hello
$ cd week05
```

```
(meek85) minutes of str.py
5 python use of str.py
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```

```
assert x != y
assert s[3] == '1'
assert s[-1] == 'o'
assert s[:3] == 'hel'
 assert s[4] == s[-1]
   s[5]
   print(e)
u = s.upper()
 print(u)
 print(s)
print(t)
t1 = t.format('Jack', 21)
print(t1)
s2 = 'ghi'
assert s == 'abcghi'
print(s2 + s1)
try:
print(s2 - s1)
 print(e)
print(s)
```

```
True
f-string
name: Tom
TAB a b
New Line aaa
bbb
xyz
abc
eee
aaa
初始化
[5, 8, 2]
string index out of range
HELLO
hello
name: {}, age {}
name: Jack, age 21
ghiabc
unsupported operand type(s) for -: 'str' and 'str'
=*==*==*==*==*==*=
unsupported operand type(s) for /: 'str' and 'int'
True
True
True
True
True
True
<str_ascii_iterator object at 0x00000221DAD6DE40>
b
0
k
4
The book of why took nooo the book of why took nooo
True
True
False
True
False
True
False
rose:jack:bob
['rose', 'jack', 'bob']
                                   s = 'aaaa'
```

```
use_of_bytes.py > .
      from pathlib import Path
     print(s)
      print(s[0])
     p = Path("C:\\Users\\qiang\\anaconda3\\envs\\week05\\python.exe")
     s = p.read_bytes()
     print(len(s))
     p = Path("environment.yml")
     b = p.read_bytes()
     print(b[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 😊 "
     print(s)
     b = s.encode()
     breakpoint()
```



```
use_of_float.py > ...
 1 import random
    x = 3.14
    print(type(x))
 6 print(type(y))
 7 assert x == y
10 print(x, type(x))
     x = random.random()
     print(x)
     assert not 0.0
     nan = float("nan")
     print(nan + 3)
     print(nan > 3)
    print(nan < 3)</pre>
     print(nan == 3)
     pinf = float("inf")
     print(3.14 - 2)
     print(pinf > 1e200)
     print(pinf > pinf)
     print(pinf == pinf)
     ninf = float("-inf")
     print(ninf)
```