

L0-Python

2024年9月30日 10:06

任务一

代码部分:

```
# utf-8
'''
eg:
input:
    """Hello world!
    This is an example.
    Word count is fun.
    Is it fun to count words?
    Yes, it is fun!"""
output:
    {'hello': 1, 'world': 1, 'this': 1, 'is': 4, 'an': 1, 'example': 1, 'word': 1,
'count': 2,
'fun': 3, 'it': 2, 'to': 1, 'words': 1, 'yes': 1}
'''

text = """
Got this panda plush toy for my daughter's birthday,
who loves it and takes it everywhere. It's soft and
super cute, and its face has a friendly look. It's
a bit small for what I paid though. I think there
might be other options that are bigger for the
same price. It arrived a day earlier than expected,
so I got to play with it myself before I gave it
to her.
"""

def wordcount(text):
    # pass
    word_counts = {}
    words = text.split()
    for word in words:
        word = word.strip('.,?!')
        word = word.lower()

        if word in word_counts:
            word_counts[word] += 1
        else:
            word_counts[word] = 1

    return word_counts

output = wordcount(text)
print(output)
```

结果:

```
{'got': 2, 'this': 1, 'panda': 1, 'plush': 1, 'toy': 1, 'for': 3, 'my': 1,
'daughter's': 1, 'birthday': 1, 'who': 1, 'loves': 1, 'it': 5, 'and': 3, 'takes': 1,
'everywhere': 1, 'it's': 2, 'soft': 1, 'super': 1, 'cute': 1, 'its': 1, 'face': 1,
'has': 1, 'a': 3, 'friendly': 1, 'look': 1, 'bit': 1, 'small': 1, 'what': 1, 'i': 4,
'paid': 1, 'though': 1, 'think': 1, 'there': 1, 'might': 1, 'be': 1, 'other': 1,
'options': 1, 'that': 1, 'are': 1, 'bigger': 1, 'the': 1, 'same': 1, 'price': 1,
'arrived': 1, 'day': 1, 'earlier': 1, 'than': 1, 'expected': 1, 'so': 1, 'to': 2,
'play': 1, 'with': 1, 'myself': 1, 'before': 1, 'gave': 1, 'her': 1}
```

示例图:

```
15 text = """
18 super cute, and its face has a friendly look. It's
19 a bit small for what I paid though. I think there
20 might be other options that are bigger for the
21 same price. It arrived a day earlier than expected,
22 so I got to play with it myself before I gave it
23 to her.
24 """
25
26 def wordcount(text):
27     # pass
28     word_counts = {}
29     words = text.split()
30
31     for word in words:
32         word = word.strip(',?!')
33         word = word.lower()
34
35         if word in word_counts:
36             word_counts[word] += 1
37         else:
38             word_counts[word] = 1
39
40     return word_counts
41
42 print(wordcount(text))
43
44
45
46
47
```

```
3. 查看 GPU 显存和算力使用率: studio-smi
4. 使用IntelliJ IDEA开指用用的conda环境:
   studio-conda -h
5. 将conda环境一键添加到jupyterlab:
   lab add (YOUR_CONDA_ENV_NAME)

.....

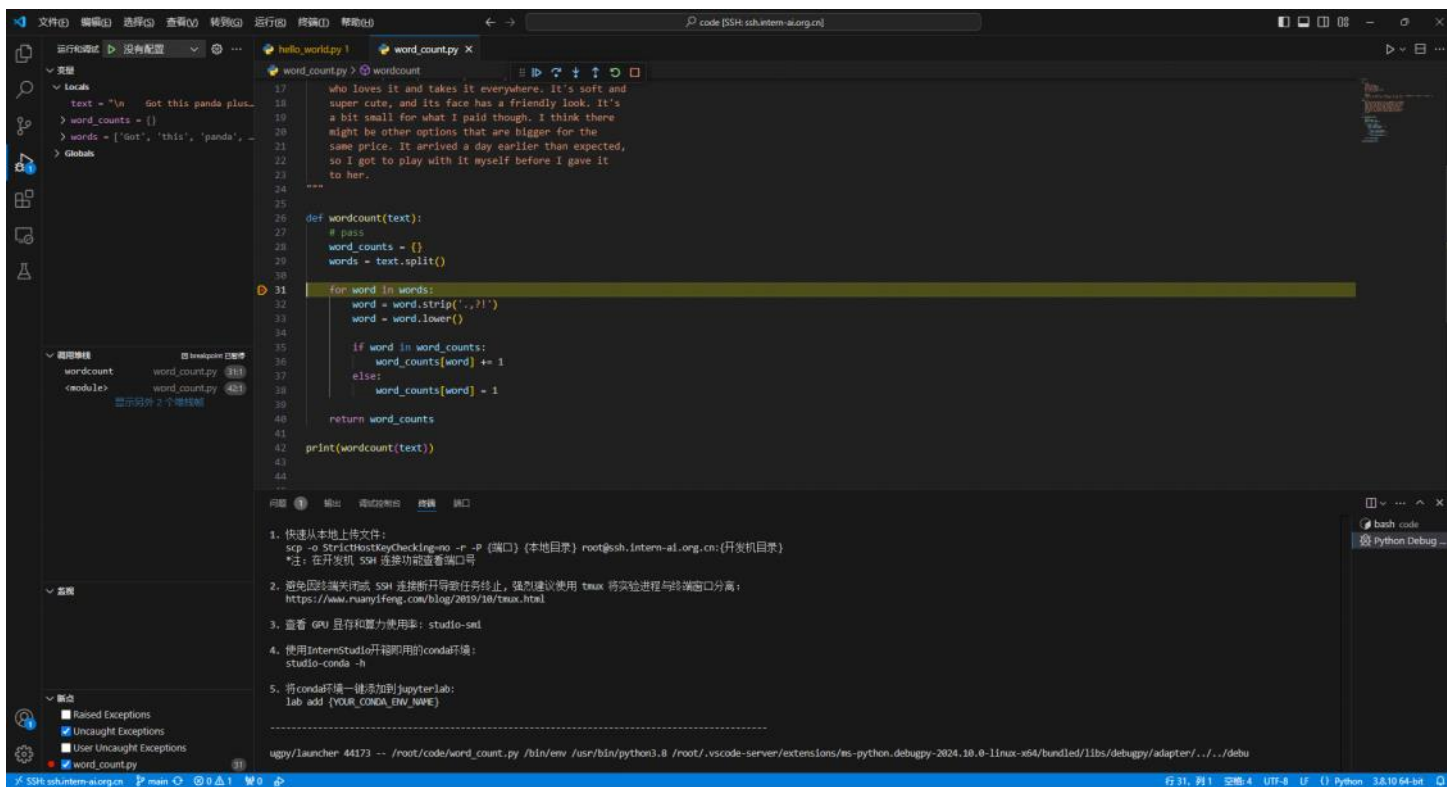
(base) root@intern-studio-50107184:~/code# python word_count.py
{'got': 2, 'this': 1, 'panda': 1, 'plush': 1, 'toy': 1, 'for': 3, 'my': 1, 'daughter': 5, 'birthday': 1, 'who': 1, 'loves': 1, 'it': 5, 'and': 3, 'takes': 1, 'everywhere': 3, 'it's': 2, 'soft': 1, 'super': 1, 'cute': 1, 'its': 1, 'face': 1, 'has': 1, 'a': 3, 'friendly': 1, 'look': 1, 'bit': 1, 'small': 1, 'what': 1, 'I': 4, 'paid': 1, 'though': 1, 'think': 1, 'there': 1, 'might': 1, 'be': 1, 'other': 1, 'options': 1, 'that': 1, 'are': 1, 'bigger': 1, 'the': 1, 'same': 1, 'price': 1, 'arrived': 1, 'day': 1, 'earlier': 1, 'than': 1, 'expected': 1, 'so': 1, 'to': 2, 'play': 1, 'with': 1, 'myself': 1, 'before': 1, 'gave': 1, 'her': 1}
```

任务二

- 安装python-debug插件



- 在行号左侧设置断点，点击左侧侧边栏debug按钮，并点击运行调试，程序会运行到断点处停止，左侧可以看见过程中变量的变化



- 点击可以运行到下一行



- 最后输出结果

