1 闯关任务

Python实现wordcount

```python
import re


def wordcount(text):
    # 使用正则表达式替换标点符号为空格
    text = re.sub(r'[.,;!?]', ' ', text)

    # 将文本分割成单词列表并转换为小写
    words = text.lower().split()

    # 创建一个字典来存储单词计数
    word_counts = {}

    # 遍历单词列表，更新字典中的计数
    for word in words:
        if word in word_counts:
            word_counts[word] += 1
        else:
            word_counts[word] = 1

    return word_counts

# 示例用法
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.
"""

print(wordcount(text))
```

```python
 7    def wordcount(text):
14        # 创建一个字典来存储单词计数
15        word_counts = {}
16
17        # 遍历单词列表，更新字典中的计数
18        for word in words:
19            if word in word_counts:
20                word_counts[word] += 1
21            else:
22                word_counts[word] = 1
23
24        return word_counts
25
26    # 示例用法
27    text = """
28    Got this panda plush toy for my daughter's birthday,
29    who loves it and takes it everywhere. It's soft and
30    super cute, and its face has a friendly look. It's
31    a bit small for what I paid though. I think there
32    might be other options that are bigger for the
33    same price. It arrived a day earlier than expected,
34    so I got to play with it myself before I gave it
35    to her.
36    """
37    print(wordcount(text))
```

TERMINAL   PORTS 1   PROBLEMS 1   OUTPUT   DEBUG CONSOLE

```
/root/.conda/bin/python /root/python_tutorial/hello_world.py
Running on local URL:  http://127.0.0.1:7860

To create a public link, set `share=True` in `launch()`.
/root/.conda/bin/python /root/python_tutorial/python_task/wordcount_1.py
^CKeyboard interruption in main thread... closing server.
(base) root@intern-studio-50105460:~# /root/.conda/bin/python /root/python_tutorial/python_task/wordcount_1.py
{'got': 2, 'this': 1, 'panda': 1, 'plush': 1, 'toy': 1, 'for': 3, 'my': 1, "daughter's": 1, 'birthday': 1, 'who': 1
'takes': 1, 'everywhere': 1, "it's": 2, 'soft': 1, 'super': 1, 'cute': 1, 'its': 1, 'face': 1, 'has': 1, 'a': 3, '
'small': 1, 'what': 1, 'i': 4, 'paid': 1, 'though': 1, 'think': 1, 'there': 1, 'might': 1, 'be': 1, 'other': 1, 'o
'bigger': 1, 'the': 1, 'same': 1, 'price': 1, 'arrived': 1, 'day': 1, 'earlier': 1, 'than': 1, 'expected': 1, 'so'
, 'myself': 1, 'before': 1, 'gave': 1, 'her': 1}
(base) root@intern-studio-50105460:~#
```

2 闯关任务

Vscode连接InternStudio debug笔记

注意：vscode安装了python插件，如果没有生效，重启vscode

```python
def add_numbers(a,b,c):
    sum = 0#这里其实覆盖了python自带的sum方法。
    sum +=a
    sum +=b
    sum +=c
    print("The sum is ",sum)

if __name__ =='__main__':
    x,y,z = 1,2,3
    result = add_numbers(x,y,z)#图中代码这里写成1,2,3了
    print("The result of sum is ",result)
```

VARIABLES
Locals
  a = 1
  b = 2
  c = 3
  sum = 1
Globals

WATCH

CALL STACK   Paused on breakpoint
  add_numbers   python_debug_tutorial...
  <module>   python_debug_tutorial.py

BREAKPOINTS
☐ Raised Exceptions
☑ Uncaught Exceptions
☐ User Uncaught Exceptions
● ☑ python_debug_tutorial.py ~/pyth... 4
● ☑ python_debug_tutorial.py ~/pyth... 6
● ☑ python_debug_tutorial.py ~/pyth... 9
● ☑ python_debug_tutorial.py ~/pyth...

TERMINAL   PORTS 1   PROBLEMS 1   OUTPUT   DEBUG CONSOLE
```
|        |              |     |【注意】该目录有存储限额，超过限额后新写入的数据会被静默删除！       |        |
+--------+--------------+-----+
| /share |   共享目录   | 常用微调数据集、模型仓库、教程、xtuner 配置文件都存放在此。        |
+--------+--------------+-----+
Tips:

1. 快速从本地上传文件：
   scp -o StrictHostKeyChecking=no -r -P {端口} {本地目录} root@ssh.intern-ai.org.cn:{开发机目录}
   *注：在开发机 SSH 连接功能查看端口号

2. 避免因终端关闭或 SSH 连接断开导致任务终止，强烈建议使用 tmux 将实验进程与终端窗口分离：
   https://www.ruanyifeng.com/blog/2019/10/tmux.html

3. 查看 GPU 显存和算力使用率: studio-smi

4. 使用InternStudio开箱即用的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-50105460:~# /usr/bin/env /root/.conda/bin/python /root/.vscode-server/extension
dled/libs/debugpy/adapter/../../debugpy/launcher 51033 -- /root/python_tutorial/python_debug_tutorial.py
```