

command-line-arguments-to-count-word

' AIM:

To write a python program for getting the word count from the contents of a file using command line arguments.

' EQUIPEMENT'S REQUIRED:

PC Anaconda - Python 3.7

' ALGORITHM:

' Step 1:

import os

' Step 2:

Open file using open().

' Step 3:

Use for loop

' Step 4:

Use len to count number of words.

' Step 5:

Give print.

' Step 6:

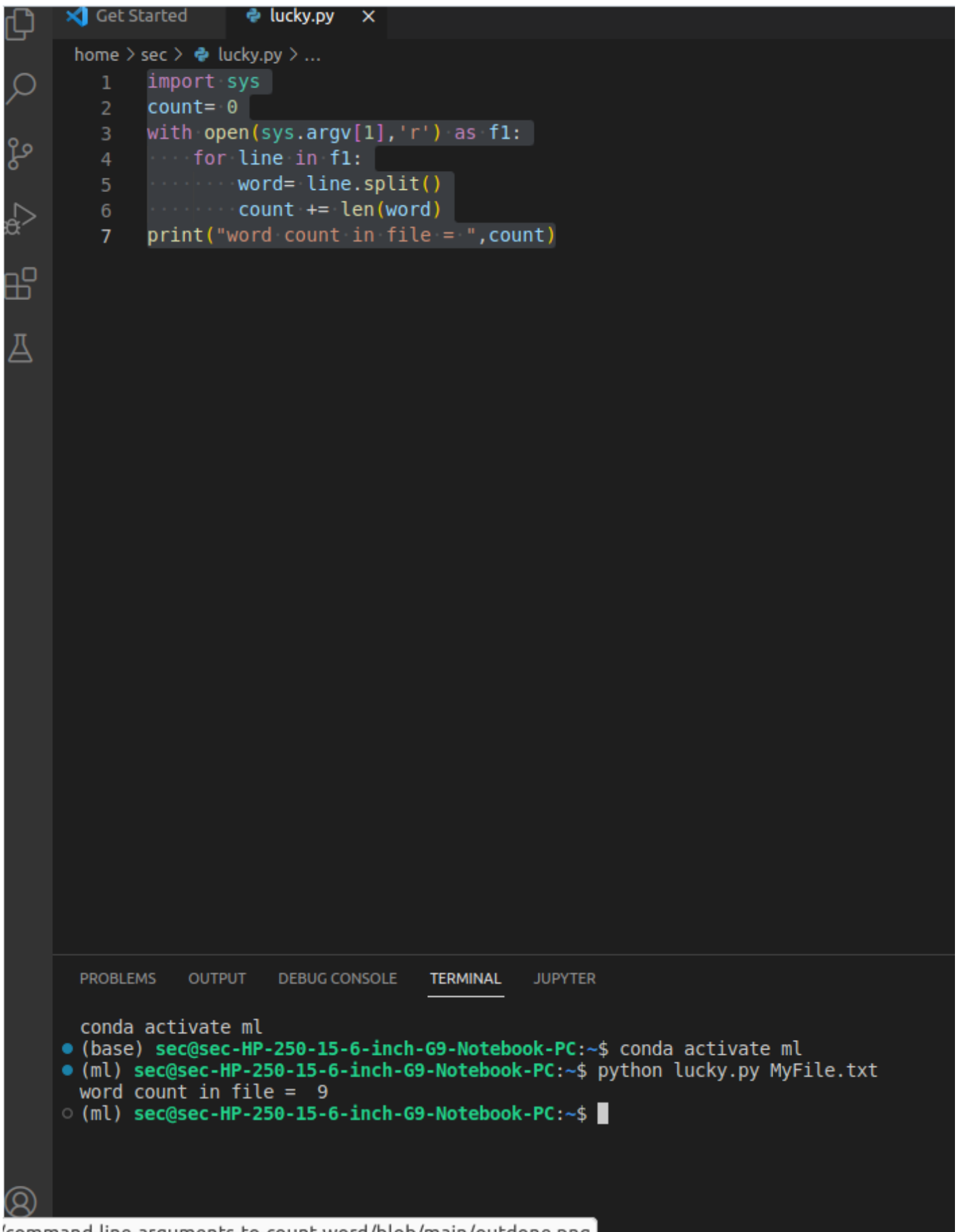
End of the program

' PROGRAM:

```
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#Reference number:22000974
```

```
import sys
count= 0
with open(sys.argv[1],'r') as f1:
    for line in f1:
        word= line.split()
        count += len(word)
print("word count in file = ",count)
```

' **OUTPUT:**



The screenshot shows a Jupyter Notebook with a single cell containing a Python script. The script is designed to count the number of words in a file specified by a command-line argument. The script uses `sys.argv[1]` to get the filename, opens it with `open()`, iterates through each line, splits it into words, and increments a counter. Finally, it prints the total word count.

```
home > sec > lucky.py > ...  
1 import sys  
2 count= 0  
3 with open(sys.argv[1], 'r') as f1:  
4     for line in f1:  
5         word= line.split()  
6         count += len(word)  
7 print("word count in file = ", count)
```

Below the code cell, the **TERMINAL** tab is active, showing the execution of the script. It displays the command to activate the `ml` environment, followed by the command to run `lucky.py` with `MyFile.txt` as an argument. The output shows the word count as 9.

```
conda activate ml  
● (base) sec@sec-HP-250-15-6-inch-G9-Notebook-PC:~$ conda activate ml  
● (ml) sec@sec-HP-250-15-6-inch-G9-Notebook-PC:~$ python lucky.py MyFile.txt  
word count in file = 9  
○ (ml) sec@sec-HP-250-15-6-inch-G9-Notebook-PC:~$
```

RESULT:

Thus the program is written to find the word count from the contents of a file using command line arguments.