Exception has occurred: SystemExit 2 argparse. Argument Error: the following arguments are required: query, query During handling of the above exception, another exception occurred: File "C:\Project\Python-program-to-fetch-research-papers-based-on-a-user-specifiedquery\pyCode.py", line 73, in main args = parser.parse\_args() File "C:\Project\Python-programto-fetch-research-papers-based-on-a-user-specified-query\pyCode.py", line 84, in <module> main() ~~~^^ SystemExit: 2

#### **ChatGPT said:**

The error "argparse.ArgumentError: the following arguments are required: query, query" suggests that your script is expecting a required argument (query), but it's either:

- 1. Not provided correctly when running the script
- 2. Defined twice accidentally in the script

#### **How to Fix This**



#### 1. Check Your Command

Make sure you're running the script correctly. Use **only one** query argument:

sh

CopyEdit

python pyCode.py "cancer research"

or with the file output option:

sh

CopyEdit

python pyCode.py "cancer research" -f output.csv



🥊 Ensure you're using double quotes (" ") around multi-word queries.

# 2. Check Your Code for Duplicated Argument Definitions

Open pyCode.py and check the argparse section. It should **not** have duplicate query arguments.

Correct Version (Fix it if needed)

python

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import argparse

parser = argparse.ArgumentParser(description="Fetch research papers from PubMed with company affiliations.")

parser.add\_argument("query", help="PubMed search query") # Ensure this appears \*\*only once\*\*

parser.add\_argument("-d", "--debug", action="store\_true", help="Enable debug mode")
parser.add\_argument("-f", "--file", type=str, help="Output CSV file")

If you see two parser.add\_argument("query", help=...), remove the duplicate!

## 3. Print Debug Info Before Parsing Arguments

To check what arguments are actually being received by your script, modify main() like this:

python

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import sys

print("Arguments received:", sys.argv) # Add this line for debugging

args = parser.parse\_args()

Then, run your script again and check the output.

#### Let Me Know If You Need More Help!

#### You said:

PS C:\Project\> & 'c:\Project\.venv\Scripts\python.exe' 'c:\Users\Amal Babu George\.vscode\extensions\ms-python.debugpy-2025.4.1-win32-x64\bundled\libs\debugpy\launcher' '65360' '--' 'C:\Project\Python-program-to-fetch-research-papers-based-on-a-user-specified-query\pyCode.py' usage: pyCode.py [-h] [-d] [-f FILE] query query pyCode.py: error: the following arguments are required: query, query

#### **ChatGPT said:**

The error message "the following arguments are required: query, query" indicates that your script is expecting two positional arguments for query instead of one. This likely means that the argument is defined twice in your argparse setup.

## How to Fix

#### 1. Check Your argparse Definition

In pyCode.py, find this section:

python

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parser.add\_argument("query", help="PubMed search query")
parser.add\_argument("query", help="PubMed search query") # This might be duplicated!

If you see parser.add\_argument("query", help=...) twice, remove one of them!

### **✓** Corrected version:

python

CopyEdit

parser.add\_argument("query", help="PubMed search query") # Ensure it appears \*\*only once\*\*
parser.add\_argument("-d", "--debug", action="store\_true", help="Enable debug mode")
parser.add\_argument("-f", "--file", type=str, help="Output CSV file")

### 2. Run the Script Correctly

Once you've fixed the code, run it using:

sh

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python pyCode.py "cancer research"

or with file output:

sh

CopyEdit

python pyCode.py "cancer research" -f output.csv

If using VS Code's debugger, make sure the **launch.json** does not add extra arguments.

### 3. Debug: Print the Arguments

To check what arguments are being received, add this before parser.parse\_args():

python

CopyEdit

import sys

print("Arguments received:", sys.argv)

Then **run the script** and check the output.



1. **Fix duplicate query argument** in pyCode.py

- 2. Use the correct command-line format
- 3. Debug using sys.argv if issues persist

PS C:\Project/ & c:/Project/.venv/Scripts/python.exe c:/Project/Python-program-to-fetch-research-papers-based-on-a-user-specified-query/pyCode.py usage: pyCode.py [-h] [-d] [-f FILE] query pyCode.py: error: the following arguments are required: query PS C:\Project> python pyCode.py "cancer research" >> C:\Project\.venv\Scripts\python.exe: can't open file 'C:\\Project\\pyCode.py': [Errno 2] No such file or directory PS C:\Project>

#### **ChatGPT said:**

It looks like there are two issues:

1.	Missing	Query	Argument:	When	running:
----	---------	-------	-----------	------	----------

sh

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& c:/Project/.venv/Scripts/python.exe c:/Project/Python-program-to-fetch-research-papers-based-on-a-user-specified-query/pyCode.py

You get:

go

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pyCode.py: error: the following arguments are required: query

**Fix**: Provide a query:

sh

CopyEdit

python c:/Project/Python-program-to-fetch-research-papers-based-on-a-user-specified-query/pyCode.py "cancer research"

2. **File Not Found (Errno 2)**: When running:

sh

CopyEdit

python pyCode.py "cancer research"

You get:

rust

CopyEdit

C:\Project\.venv\Scripts\python.exe: can't open file 'C:\\Project\\pyCode.py': [Errno 2] No such file or directory

FIX:		
	0	Check if the file exists:

sh

### CopyEdit

ls C:\Project\Python-program-to-fetch-research-papers-based-on-a-user-specified-query\

If pyCode.py is missing, move to the correct directory or provide the full path.

### • Try running from the project folder:

sh

### CopyEdit

cd C:\Project\Python-program-to-fetch-research-papers-based-on-a-user-specified-query python pyCode.py "cancer research"

### Use the full path to Python:

sh

### CopyEdit

c:/Project/.venv/Scripts/python.exe c:/Project/Python-program-to-fetch-research-papers-based-on-a-user-specified-query/pyCode.py "cancer research"

Try these and let me know if you still face issues! 🚀