

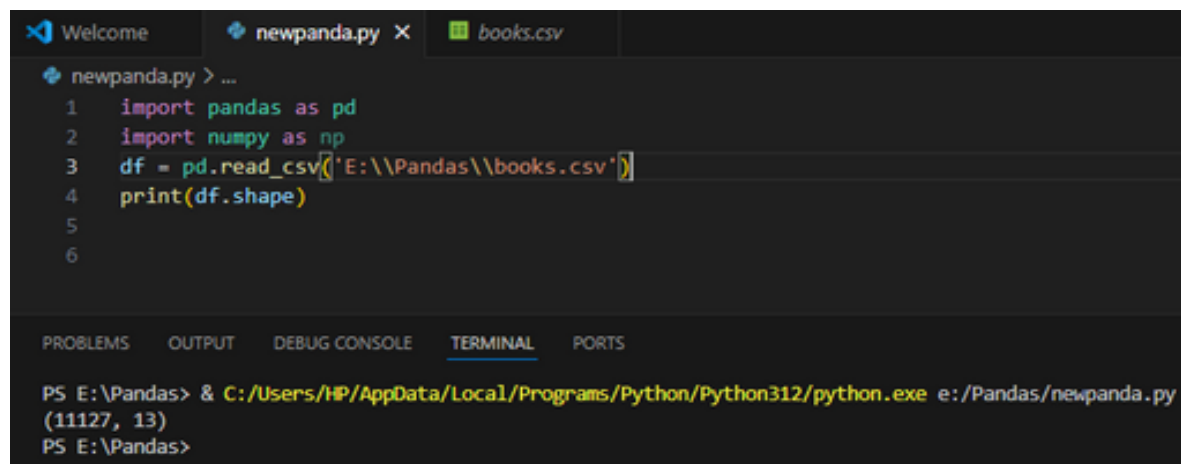
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EDS ACTIVITY

1.How many rows and columns are there?



The screenshot shows a Visual Studio Code editor with two tabs: 'newpanda.py' and 'books.csv'. The 'newpanda.py' tab is active, displaying the following Python code:

```
newpanda.py > ...  
1 import pandas as pd  
2 import numpy as np  
3 df = pd.read_csv('E:\\Pandas\\books.csv')  
4 print(df.shape)  
5  
6
```

Below the code editor, the 'TERMINAL' panel is open, showing the command prompt output:

```
PS E:\Pandas> & C:/Users/HP/AppData/Local/Programs/Python/Python312/python.exe e:/Pandas/newpanda.py  
(11127, 13)  
PS E:\Pandas>
```

2.Get a summary (info) of the dataset.

```
Welcome | newpanda.py X | books.csv

newpanda.py > ...
1  import pandas as pd
2  import numpy as np
3  df = pd.read_csv('E:\\Pandas\\books.csv')
4  print(df.info())
5

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

PS E:\Pandas> & C:/Users/HP/AppData/Local/Programs/Python/Python312/python.exe e:/Pandas/newpanda.py
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 11127 entries, 0 to 11126
Data columns (total 13 columns):
 #   Column                Non-Null Count  Dtype  
---  -
 0   bookID                11127 non-null  int64  
 1   title                 11127 non-null  object  
 2   authors               11127 non-null  object  
 3   average_rating        11127 non-null  object  
 4   isbn                  11127 non-null  object  
 5   isbn13                11127 non-null  object  
 6   language_code         11127 non-null  object  
 7   num_pages             11127 non-null  object  
 8   ratings_count         11127 non-null  int64  
 9   text_reviews_count    11127 non-null  int64  
10  publication_date       11127 non-null  object  
11  publisher              11127 non-null  object  
12  Unnamed: 12           4 non-null      object  
dtypes: int64(3), object(10)
memory usage: 1.1+ MB
None
PS E:\Pandas>
```

3.Find the book with the highest rating.

```
Welcome | newpanda.py X | books.csv

newpanda.py > ...
1  import pandas as pd
2  import numpy as np
3  df = pd.read_csv('E:\\Pandas\\books.csv')
4  print(df.sort_values(by='average_rating', ascending=False).head(1))
5
6
-

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS  Python

PS E:\Pandas> & C:/Users/HP/AppData/Local/Programs/Python/Python312/python.exe e:/Pandas/newpanda.py
bookID title authors ... publication_date publisher Unnamed: 12
5658 20957 Colossians and Philemon: A Critical and Exeget... R. McL. Wilson ... 12-07-2005 T&T Clark Int'l NaN

[1 rows x 13 columns]
PS E:\Pandas>
```

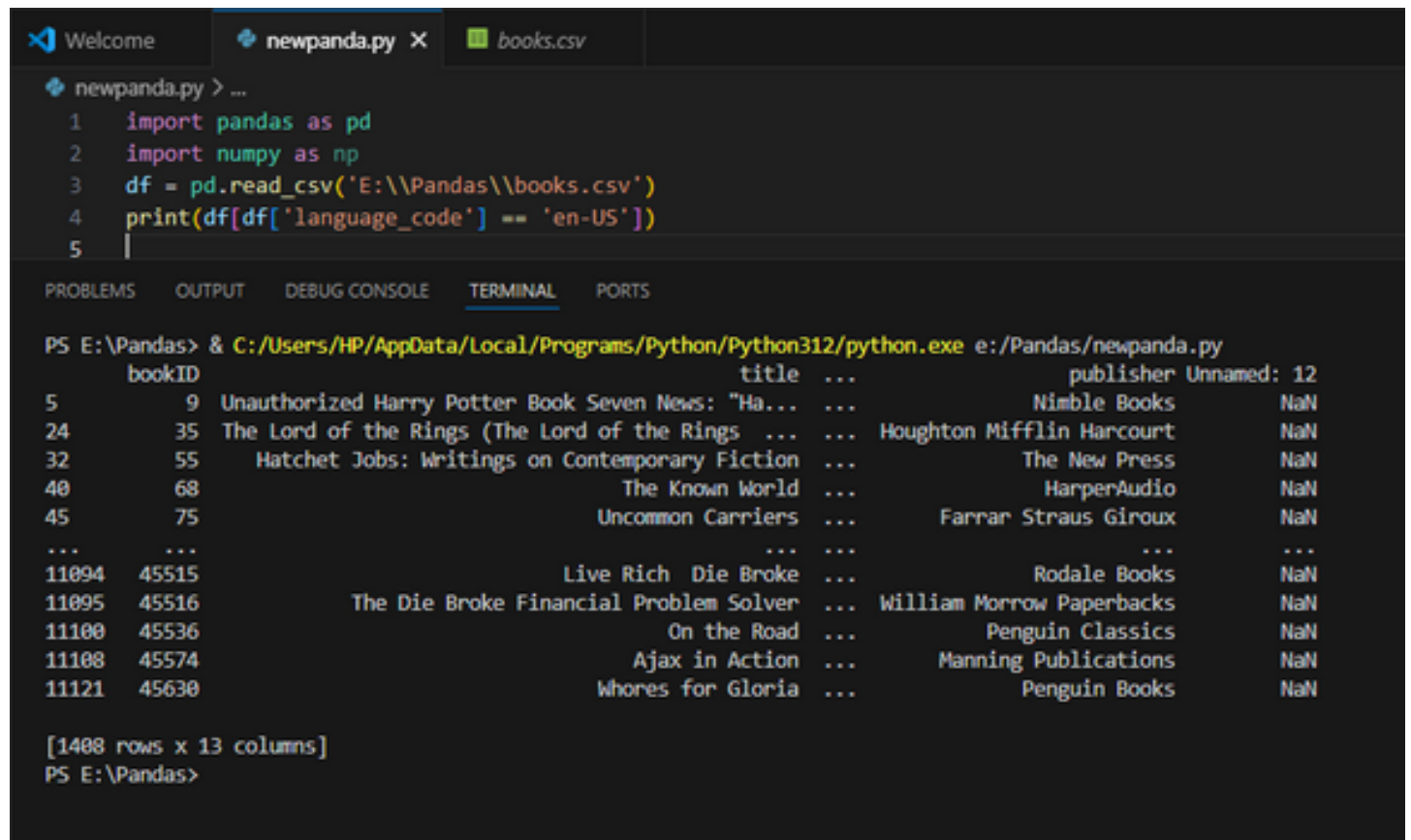
4.Find the book with the lowest rating.

```
Welcome | newpanda.py X | books.csv
newpanda.py > ...
1 import pandas as pd
2 import numpy as np
3 df = pd.read_csv('E:\\Pandas\\books.csv')
4 print(df.sort_values(by='average_rating', ascending=True).head(1))
5
6
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS Python + v
PS E:\Pandas> & C:/Users/HP/AppData/Local/Programs/Python/Python312/python.exe e:/Pandas/newpanda.py
bookID title authors ... publication_date publisher Unnamed: 12
3348 12224 Streetcar Suburbs: The Process of Growth in Bo... Sam Bass Warner ... 6 4/28/2004 Harvard University Press
[1 rows x 13 columns]
PS E:\Pandas>
```

5.Find all books written by 'J.K. Rowling'.

```
Welcome | newpanda.py X | books.csv
newpanda.py > ...
1 import pandas as pd
2 import numpy as np
3 df = pd.read_csv('E:\\Pandas\\books.csv')
4 print(df[df['authors'] == 'J.K. Rowling'])
5
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS Python + v
PS E:\Pandas> & C:/Users/HP/AppData/Local/Programs/Python/Python312/python.exe e:/Pandas/newpanda.py
bookID title authors ... publication_date publisher Unnamed: 12
2 4 Harry Potter and the Chamber of Secrets (Harry... J.K. Rowling ... 11-01-2003 Scholastic NaN
6 10 Harry Potter Collection (Harry Potter #1-6) J.K. Rowling ... 09-12-2005 Scholastic NaN
613 2002 Harry Potter Schoolbooks Box Set: Two Classic ... J.K. Rowling ... 11-01-2001 Arthur A. Levine NaN
615 2005 Harry Potter and the Half-Blood Prince (Harry ... J.K. Rowling ... 6/23/2006 Bloomsbury Publishing NaN
988 3357 Harry Potter Y La Piedra Filosofal (Harry Pott... J.K. Rowling ... 03-06-2001 Turtleback Books NaN
1233 4256 Harry Potter and the Prisoner of Azkaban (Harr... J.K. Rowling ... 07-01-2008 Bloomsbury UK NaN
4413 15876 Harry Potter y la Orden del Fénix (Harry Potte... J.K. Rowling ... 2/21/2004 Emece Editores NaN
10347 41907 Harry Potter und die Kammer des Schreckens (Ha... J.K. Rowling ... 9/30/2000 Carlsen NaN
10350 41911 Harry Potter und der Gefangene von Askaban (Ha... J.K. Rowling ... 04-01-2001 Carlsen NaN
10678 43504 Harry Potter and the Philosopher's Stone (Harr... J.K. Rowling ... 07-01-2010 Bloomsbury USA Childrens NaN
10679 43509 Harry Potter and the Goblet of Fire (Harry Pot... J.K. Rowling ... 07-08-2000 Bloomsbury NaN
[11 rows x 13 columns]
PS E:\Pandas>
```

6.Find all books written in en-UK language.



The screenshot shows a VS Code editor with two tabs: 'newpanda.py' and 'books.csv'. The 'newpanda.py' tab is active, displaying the following Python code:

```
1 import pandas as pd
2 import numpy as np
3 df = pd.read_csv('E:\\Pandas\\books.csv')
4 print(df[df['language_code'] == 'en-US'])
5 |
```

Below the editor, the 'TERMINAL' tab is active, showing the command prompt output of running the script. The output displays a preview of the filtered DataFrame, showing columns: bookID, title, publisher, and an unnamed column with rating values. The preview shows 12 rows of data.

```
PS E:\Pandas> & C:/Users/HP/AppData/Local/Programs/Python/Python312/python.exe e:/Pandas/newpanda.py
bookID title publisher Unnamed: 12
5 9 Unauthorized Harry Potter Book Seven News: "Ha... Nimble Books NaN
24 35 The Lord of the Rings (The Lord of the Rings ... Houghton Mifflin Harcourt NaN
32 55 Hatchet Jobs: Writings on Contemporary Fiction ... The New Press NaN
40 68 The Known World ... HarperAudio NaN
45 75 Uncommon Carriers ... Farrar Straus Giroux NaN
... ... ... ...
11094 45515 Live Rich Die Broke ... Rodale Books NaN
11095 45516 The Die Broke Financial Problem Solver ... William Morrow Paperbacks NaN
11100 45536 On the Road ... Penguin Classics NaN
11108 45574 Ajax in Action ... Manning Publications NaN
11121 45630 Whores for Gloria ... Penguin Books NaN

[1408 rows x 13 columns]
PS E:\Pandas>
```

7.Find the average rating count for each author.

```
Welcome | newpanda.py X | books.csv
newpanda.py > ...
1 import pandas as pd
2 import numpy as np
3 df = pd.read_csv('E:\\Pandas\\books.csv')
4 print(df.groupby('authors')['ratings_count'].mean().sort_values(ascending=False))
5

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS E:\Pandas> & C:/Users/HP/AppData/Local/Programs/Python/Python312/python.exe e:/Pandas/newpanda.py
authors
Stephenie Meyer 4597666.0
George Orwell/Boris Grabnar/Peter Škerl 2111750.0
Paulo Coelho/Alan R. Clarke/Özdemir İnce 1631221.0
Markus Zusak/Cao Xuân Việt Khương 1516367.0
J.K. Rowling/Mary GrandPré 1487330.0
...
Adrian Guelke/Michael Cox/Fiona Stephen 0.0
Graham Handley 0.0
Herman Melville/Hershel Parker/G. Thomas Tanselle/Harrison Hayford/Robert Sandberg/Alma MacDougall Reising 0.0
Eleanor J. Gibson 0.0
Robert L. Geneve 0.0
Name: ratings_count, Length: 6643, dtype: float64
PS E:\Pandas>
```

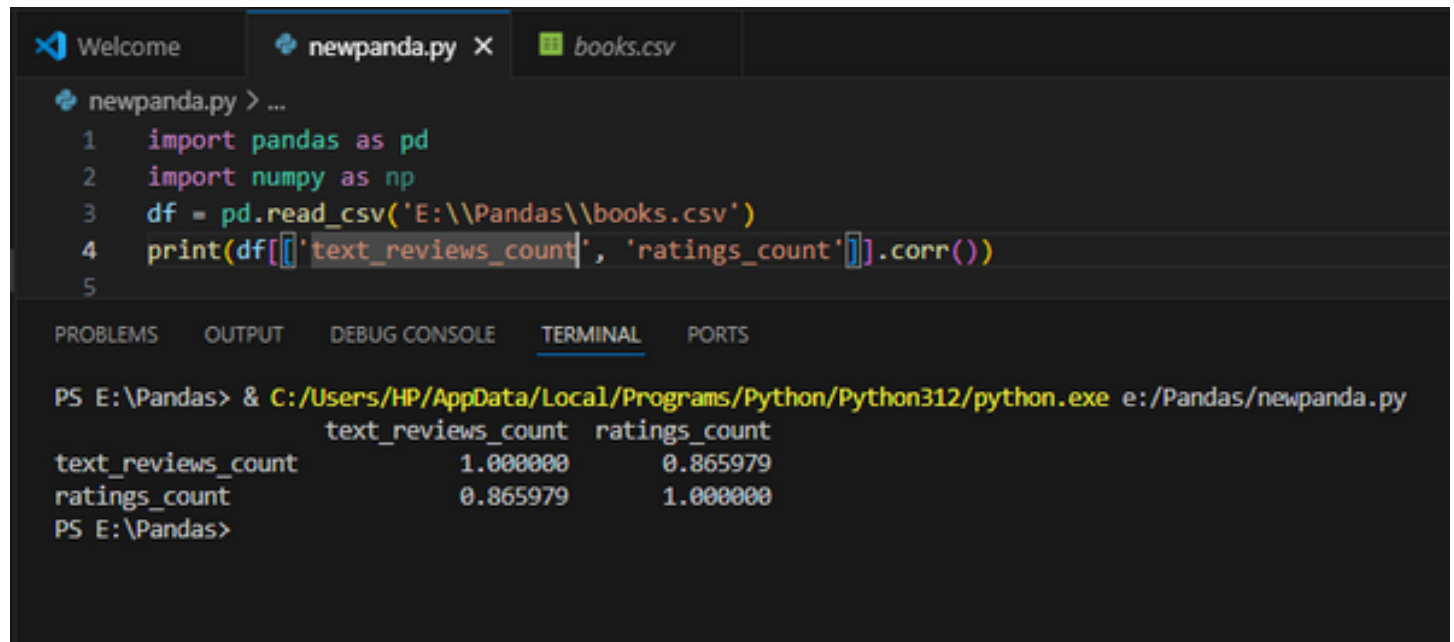
8. Average number of reviews per rating category.

```
Welcome | newpanda.py X | books.csv
newpanda.py > ...
1 import pandas as pd
2 import numpy as np
3 df = pd.read_csv('E:\\Pandas\\books.csv')
4 print(df.groupby('ratings_count')['text_reviews_count'].mean())
5

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS E:\Pandas> & C:/Users/HP/AppData/Local/Programs/Python/Python312/python.exe e:/Pandas/newpanda.py
ratings_count
0 0.025000
1 0.144737
2 0.281690
3 0.390244
4 0.535211
...
2339585 36325.000000
2418736 21303.000000
2457092 43499.000000
2530894 32871.000000
4597666 94265.000000
Name: text_reviews_count, Length: 5294, dtype: float64
PS E:\Pandas>
```

9. Correlation between number of reviews and rating count.

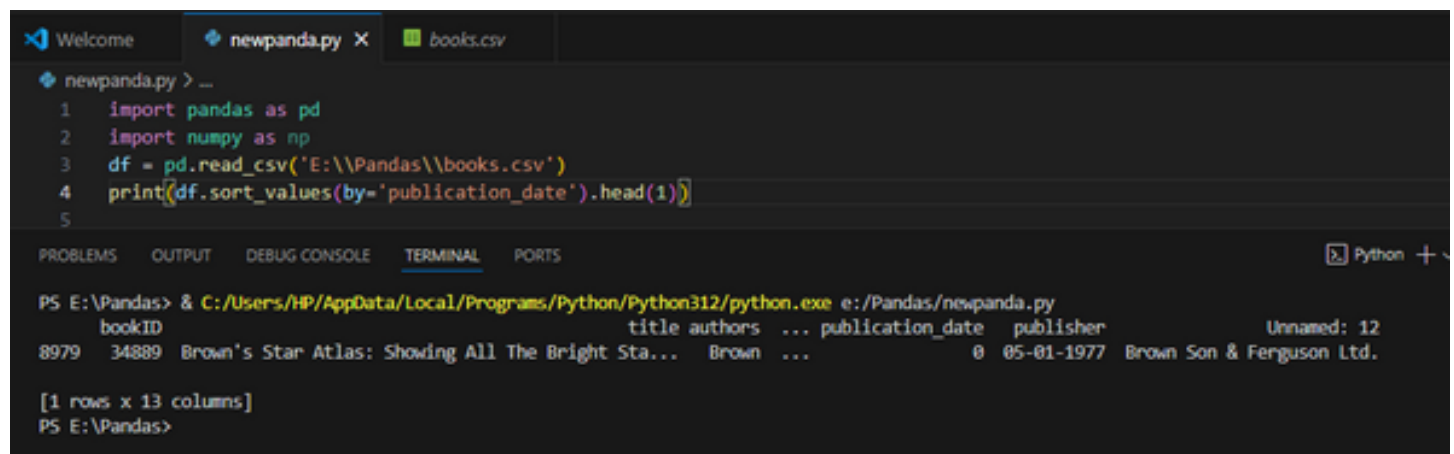


The screenshot shows a Visual Studio Code editor with two tabs: 'newpanda.py' and 'books.csv'. The 'newpanda.py' tab is active, displaying a Python script. The script imports pandas and numpy, reads a CSV file, and calculates the correlation between 'text_reviews_count' and 'ratings_count'. The terminal window at the bottom shows the command to run the script and its output, which is a correlation matrix.

```
newpanda.py > ...
1 import pandas as pd
2 import numpy as np
3 df = pd.read_csv('E:\\Pandas\\books.csv')
4 print(df[['text_reviews_count', 'ratings_count']].corr())
5
```

```
PS E:\Pandas> & C:/Users/HP/AppData/Local/Programs/Python/Python312/python.exe e:/Pandas/newpanda.py
           text_reviews_count  ratings_count
text_reviews_count      1.000000      0.865979
ratings_count           0.865979      1.000000
PS E:\Pandas>
```

10. Find the oldest book in the list.



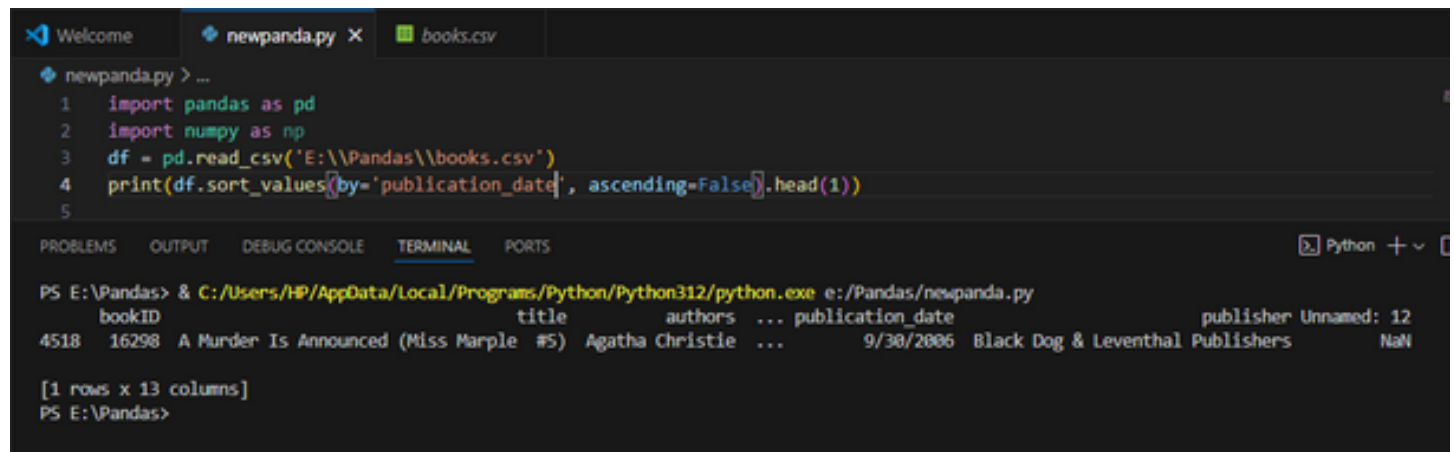
The screenshot shows a Visual Studio Code editor with two tabs: 'newpanda.py' and 'books.csv'. The 'newpanda.py' tab is active, displaying a Python script. The script imports pandas and numpy, reads a CSV file, and sorts the data by 'publication_date' to find the oldest book. The terminal window at the bottom shows the command to run the script and its output, which is the first row of the sorted data.

```
newpanda.py > ...
1 import pandas as pd
2 import numpy as np
3 df = pd.read_csv('E:\\Pandas\\books.csv')
4 print(df.sort_values(by='publication_date').head(1))
5
```

```
PS E:\Pandas> & C:/Users/HP/AppData/Local/Programs/Python/Python312/python.exe e:/Pandas/newpanda.py
      bookID      title authors ... publication_date  publisher  Unnamed: 12
8979  34889  Brown's Star Atlas: Showing All The Bright Sta...  Brown ...      0  05-01-1977  Brown Son & Ferguson Ltd.

[1 rows x 13 columns]
PS E:\Pandas>
```


11.Which one is the latest book available?



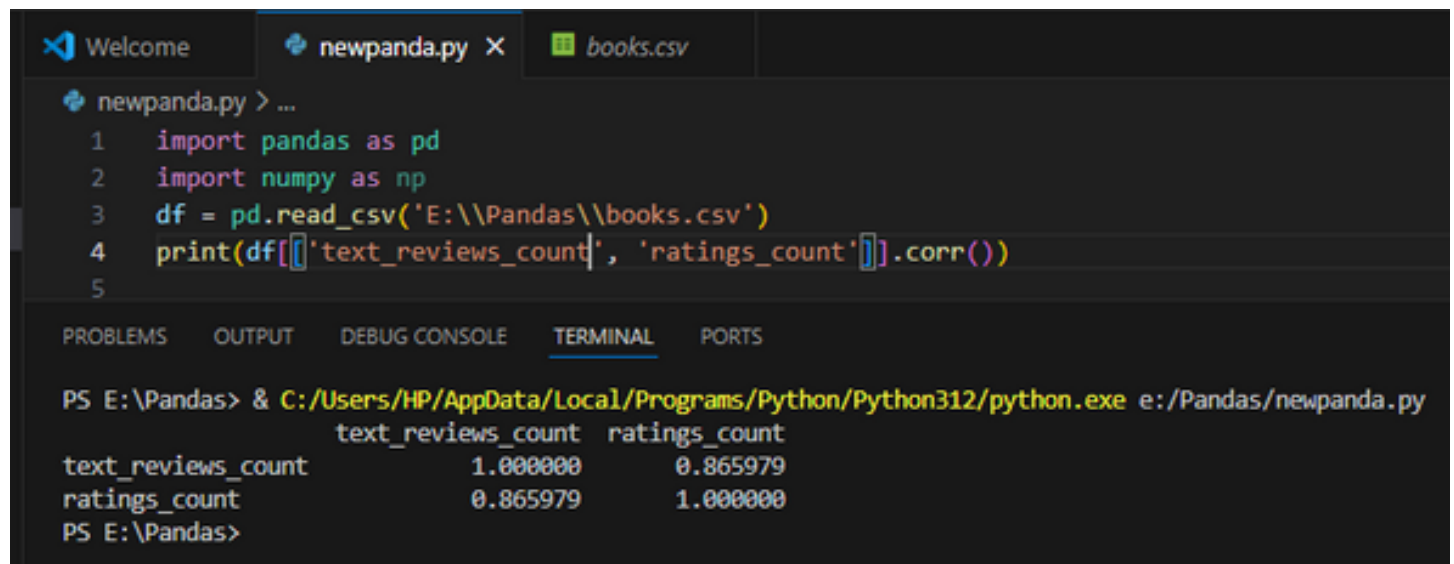
```
newpanda.py > ...
1 import pandas as pd
2 import numpy as np
3 df = pd.read_csv('E:\\Pandas\\books.csv')
4 print(df.sort_values(by='publication_date', ascending=False).head(1))
5
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS Python + v

```
PS E:\Pandas> & C:/Users/HP/AppData/Local/Programs/Python/Python312/python.exe e:/Pandas/newpanda.py
bookID title authors ... publication_date publisher Unnamed: 12
4518 16298 A Murder Is Announced (Miss Marple #5) Agatha Christie ... 9/30/2006 Black Dog & Leventhal Publishers NaN

[1 rows x 13 columns]
PS E:\Pandas>
```

12.Correlation between number of reviews and ratings.



```
newpanda.py > ...
1 import pandas as pd
2 import numpy as np
3 df = pd.read_csv('E:\\Pandas\\books.csv')
4 print(df[['text_reviews_count', 'ratings_count']].corr())
5
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS E:\Pandas> & C:/Users/HP/AppData/Local/Programs/Python/Python312/python.exe e:/Pandas/newpanda.py
      text_reviews_count  ratings_count
text_reviews_count      1.000000      0.865979
ratings_count           0.865979      1.000000
PS E:\Pandas>
```

13.Find the books published by 'Broadway Books'.

Welcome
newpanda.py
books.csv

newpanda.py > ...

```

1 import pandas as pd
2 import numpy as np
3 df = pd.read_csv('E:\\Pandas\\books.csv')
4 print(df[df['publisher']=='Broadway Books'])
5
6

```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

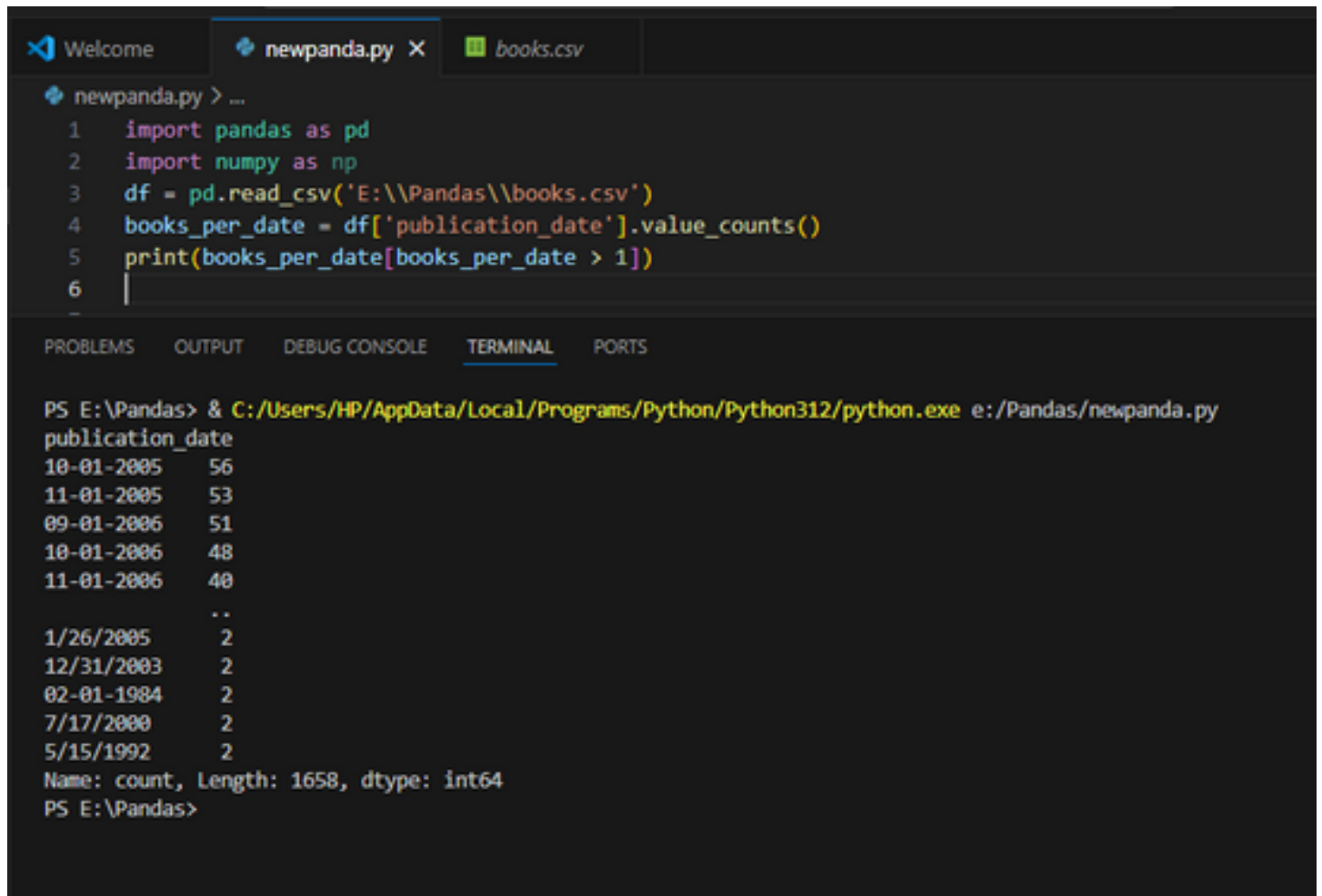
```

PS E:\Pandas> & C:/Users/HP/AppData/Local/Programs/Python/Python312/python.exe e:/Pandas/newpanda.py

```

	bookID	title	...	publisher	Unnamed: 12
12	21	A Short History of Nearly Everything	...	Broadway Books	NaN
13	22	Bill Bryson's African Diary	...	Broadway Books	NaN
14	23	Bryson's Dictionary of Troublesome Words: A Wr...	...	Broadway Books	NaN
15	24	In a Sunburned Country	...	Broadway Books	NaN
16	25	I'm a Stranger Here Myself: Notes on Returning...	...	Broadway Books	NaN
311	969	The Da Vinci Code	...	Broadway Books	NaN
325	1059	Shibumi	...	Broadway Books	NaN
661	2127	The Last Hours of Ancient Sunlight: The Fate o...	...	Broadway Books	NaN
766	2521	Blood Done Sign My Name: A True Story	...	Broadway Books	NaN
1012	3444	Northern Lights	...	Broadway Books	NaN
1013	3445	If I Die in a Combat Zone Box Me Up and Ship	Broadway Books	NaN
1044	3536	Love @ First Site	...	Broadway Books	NaN
1157	3858	Holy Cow: An Indian Adventure	...	Broadway Books	NaN
1161	3870	A Short History of Nearly Everything	...	Broadway Books	NaN
1534	5319	A Christmas Story	...	Broadway Books	NaN
2006	7208	Under The Tuscan Sun - At Home In Italy	...	Broadway Books	NaN
2144	7718	The Metamorphosis (Graphic Novel Adaptation)	...	Broadway Books	NaN
2485	9073	See No Evil: The True Story of a Ground Soldie...	...	Broadway Books	NaN
2661	9789	A Walk in the Woods: Rediscovering America on	Broadway Books	NaN
2726	10050	Youth in Revolt: The Journals of Nick Twisp	...	Broadway Books	NaN
3010	11077	The Sex Lives of Cannibals: Adrift in the Equa...	...	Broadway Books	NaN
4451	16007	Last Train to Paradise: Henry Flagler and the	Broadway Books	NaN
5253	18957	The Corner: A Year in the Life of an Inner-Cit...	...	Broadway Books	NaN
5896	22198	The Hunt for Zero Point: Inside the Classified...	...	Broadway Books	NaN
5916	22239	For the Sins of My Father: A Mafia Killer His...	...	Broadway Books	NaN
6044	22649	Bookends	...	Broadway Books	NaN
6231	23503	The Alchemist's Daughter	...	Broadway Books	NaN
6244	23526	Classic Myths to Read Aloud: The Great Stories...	...	Broadway Books	NaN
6544	24674	Isolde Queen of the Western Isle (Tristan and...	...	Broadway Books	NaN
6810	25652	The Best Recipes in the World: More Than 1 000...	...	Broadway Books	NaN
6811	25653	The Minimalist Cooks at Home: Recipes That Giv...	...	Broadway Books	NaN
6857	25812	The Ruby Ring	...	Broadway Books	NaN

14Find the number of books published per day.



The image shows a Visual Studio Code editor window with two tabs: 'newpanda.py' and 'books.csv'. The 'newpanda.py' tab is active, displaying a Python script that reads a CSV file, counts the number of books published per date, and prints the results. The script is as follows:

```
newpanda.py > ...
1 import pandas as pd
2 import numpy as np
3 df = pd.read_csv('E:\\Pandas\\books.csv')
4 books_per_date = df['publication_date'].value_counts()
5 print(books_per_date[books_per_date > 1])
6
```

Below the editor, the 'TERMINAL' tab is active, showing the command used to run the script and its output. The command is:

```
PS E:\Pandas> & C:/Users/HP/AppData/Local/Programs/Python/Python312/python.exe e:/Pandas/newpanda.py
```

The output of the script is a series of dates and their corresponding book counts:

```
publication_date
10-01-2005      56
11-01-2005      53
09-01-2006      51
10-01-2006      48
11-01-2006      40
..
1/26/2005        2
12/31/2003        2
02-01-1984        2
7/17/2000         2
5/15/1992         2
Name: count, Length: 1658, dtype: int64
PS E:\Pandas>
```

15. Find the list of books of 'Harry Potter'.

```

Welcome | newpanda.py X | books.csv
newpanda.py > ...
1 import pandas as pd
2 import numpy as np
3 df = pd.read_csv('E:\\Pandas\\books.csv')
4 harry_potter_books = df[df['title'].str.contains('Harry Potter', case=False, na=False)]
5 print(harry_potter_books[['title', 'authors']])
6
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS E:\Pandas> & C:/Users/HP/AppData/Local/Programs/Python/Python312/python.exe e:/Pandas/newpanda.py
      title                                     authors
0  Harry Potter and the Half-Blood Prince (Harry ...  J.K. Rowling/Mary GrandPré
1  Harry Potter and the Order of the Phoenix (Har...  J.K. Rowling/Mary GrandPré
2  Harry Potter and the Chamber of Secrets (Harry...  J.K. Rowling
3  Harry Potter and the Prisoner of Azkaban (Harr...  J.K. Rowling/Mary GrandPré
4  Harry Potter Boxed Set Books 1-5 (Harry Potte...  J.K. Rowling/Mary GrandPré
5  Unauthorized Harry Potter Book Seven News: "Ha...  W. Frederick Zimmerman
6  Harry Potter Collection (Harry Potter #1-6)      J.K. Rowling
613 Harry Potter Schoolbooks Box Set: Two Classic ...  J.K. Rowling
614 J.K. Rowling's Harry Potter Novels: A Reader's...  Philip Nel
615 Harry Potter and the Half-Blood Prince (Harry ...  J.K. Rowling
988 Harry Potter Y La Piedra Filosofal (Harry Pott...  J.K. Rowling
1233 Harry Potter and the Prisoner of Azkaban (Harr...  J.K. Rowling
4243 Looking for God in Harry Potter                John Granger
4411 Mugglenet.Com's What Will Happen in Harry Pott...  Ben Schoen/Andy Gordon/Gretchen Stull/Emerson ...
4412 Harry Potter y el misterio del príncipe (Harry...  J.K. Rowling/Gemma Rovira Ortega
4413 Harry Potter y la Orden del Fénix (Harry Pote...  J.K. Rowling
4414 Ultimate Unofficial Guide to the Mysteries of ...  Galadriel Waters/Astre Mithrandir
4416 Harry Potter and the Chamber of Secrets (Harry...  J.K. Rowling/Mary GrandPré
8266 Harry Potter and Philosophy: If Aristotle Ran ...  David Baggett/Shawn E. Klein
8876 Harry Potter and the Sorcerer's Stone (Harry P...  J.K. Rowling/Mary GrandPré
10347 Harry Potter und die Kammer des Schreckens (Ha...  J.K. Rowling
10348 Harry Potter und der Gefangene von Askaban (Ha...  J.K. Rowling/Rufus Beck
10349 Harry Potter ve Sırlar Odası (Harry Potter #2)  J.K. Rowling/Sevin Okyay
10350 Harry Potter und der Gefangene von Askaban (Ha...  J.K. Rowling
10678 Harry Potter and the Philosopher's Stone (Harr...  J.K. Rowling
10679 Harry Potter and the Goblet of Fire (Harry Pot...  J.K. Rowling
PS E:\Pandas>

```

16. Find the number of books available in english.

```
Welcome | newpanda.py X | books.csv
newpanda.py > ...
1 import pandas as pd
2 import numpy as np
3 df = pd.read_csv('E:\\Pandas\\books.csv')
4 english_books = df[df['language_code'].str.lower() == 'eng']
5 print(f"Number of English books: {len(english_books)}")
6
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS E:\Pandas> & C:/Users/HP/AppData/Local/Programs/Python/Python312/python.exe e:/Pandas/newpanda.py
Number of English books: 8908
PS E:\Pandas>
```

17.Find book having maximum number of reviews.

```
Welcome | newpanda.py X | books.csv
newpanda.py > ...
1 import numpy as np
2 import pandas as pd
3 df=pd.read_csv("E:\\Pandas\\books.csv")
4 print(df.sort_values(by='text_reviews_count', ascending=False).head(1))
5
6
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS Python + - [ ] [ ] ...

PS E:\Pandas> & C:/Users/HP/AppData/Local/Programs/Python/Python312/python.exe e:/Pandas/newpanda.py
bookID title authors average_rating ... text_reviews_count publication_date publisher Unnamed: 12
10340 41865 Twilight (Twilight #1) Stephenie Meyer 3.59 ... 94265 09-06-2006 Little Brown and Company NaN

[1 rows x 13 columns]
PS E:\Pandas>
```

18.Find authors who have written more than 5 books.

```
Welcome | newpanda.py X | books.csv
newpanda.py > ...
1 import numpy as np
2 import pandas as pd
3 df=pd.read_csv("E:\\Pandas\\books.csv")
4 popular_authors = df['authors'].value_counts()
5 print(popular_authors[popular_authors > 5])

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS E:\Pandas> & C:/Users/HP/AppData/Local/Programs/Python/Python312/python.exe e:/Pandas/newpanda.py
authors
Stephen King      40
P.G. Wodehouse    40
Rumiko Takahashi  39
Orson Scott Card  35
Agatha Christie  33
..
Oscar Wilde       6
Junji Ito/伊藤潤二  6
Barbara Kingsolver  6
Catherine Coulter  6
Patricia A. McKillip  6
Name: count, Length: 296, dtype: int64
PS E:\Pandas>
```

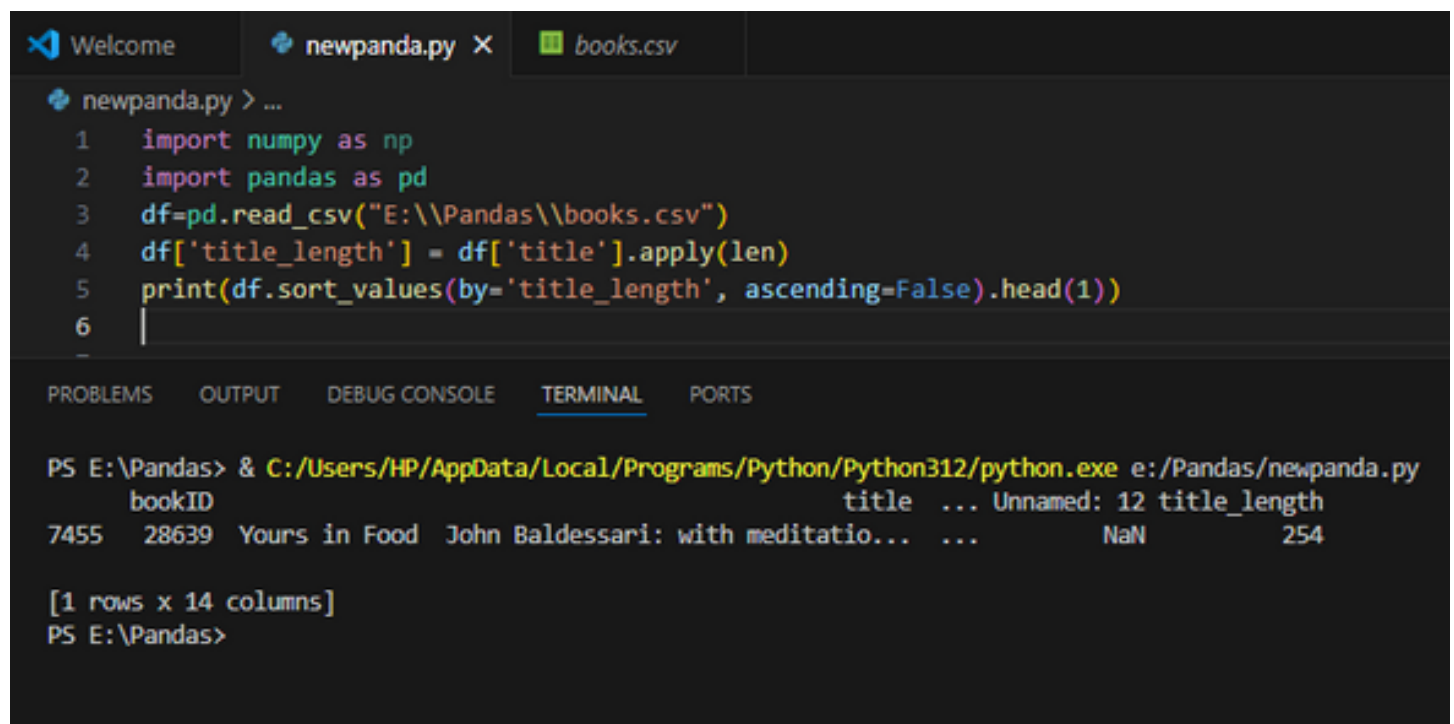
19.Find the most common first letter of all book titles.

```
Welcome | newpanda.py X | books.csv
newpanda.py > ...
1 import numpy as np
2 import pandas as pd
3 df=pd.read_csv("E:\\Pandas\\books.csv")
4 first_letters = df['title'].str[0]
5 print(first_letters.value_counts().head(1))
6 |

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS E:\Pandas> & C:/Users/HP/AppData/Local/Programs/Python/Python312/python.exe e:/Pandas/newpanda.py
title
T    3502
Name: count, dtype: int64
PS E:\Pandas>
```

20. Find the book with the longest title.



The image shows a Visual Studio Code editor window with two tabs: 'newpanda.py' and 'books.csv'. The 'newpanda.py' tab is active, displaying a Python script that reads a CSV file, calculates the length of each title, and prints the book with the longest title. The script is as follows:

```
1 import numpy as np
2 import pandas as pd
3 df=pd.read_csv("E:\\Pandas\\books.csv")
4 df['title_length'] = df['title'].apply(len)
5 print(df.sort_values(by='title_length', ascending=False).head(1))
6
```

Below the editor, the 'TERMINAL' tab is active, showing the command prompt output of running the script. The output displays the first row of the sorted data, indicating the book with the longest title.

```
PS E:\Pandas> & C:/Users/HP/AppData/Local/Programs/Python/Python312/python.exe e:/Pandas/newpanda.py
bookID title ... Unnamed: 12 title_length
7455 28639 Yours in Food John Baldessari: with meditatio... ... NaN 254

[1 rows x 14 columns]
PS E:\Pandas>
```