Name:- Shrutika Ananda Mungurwadi

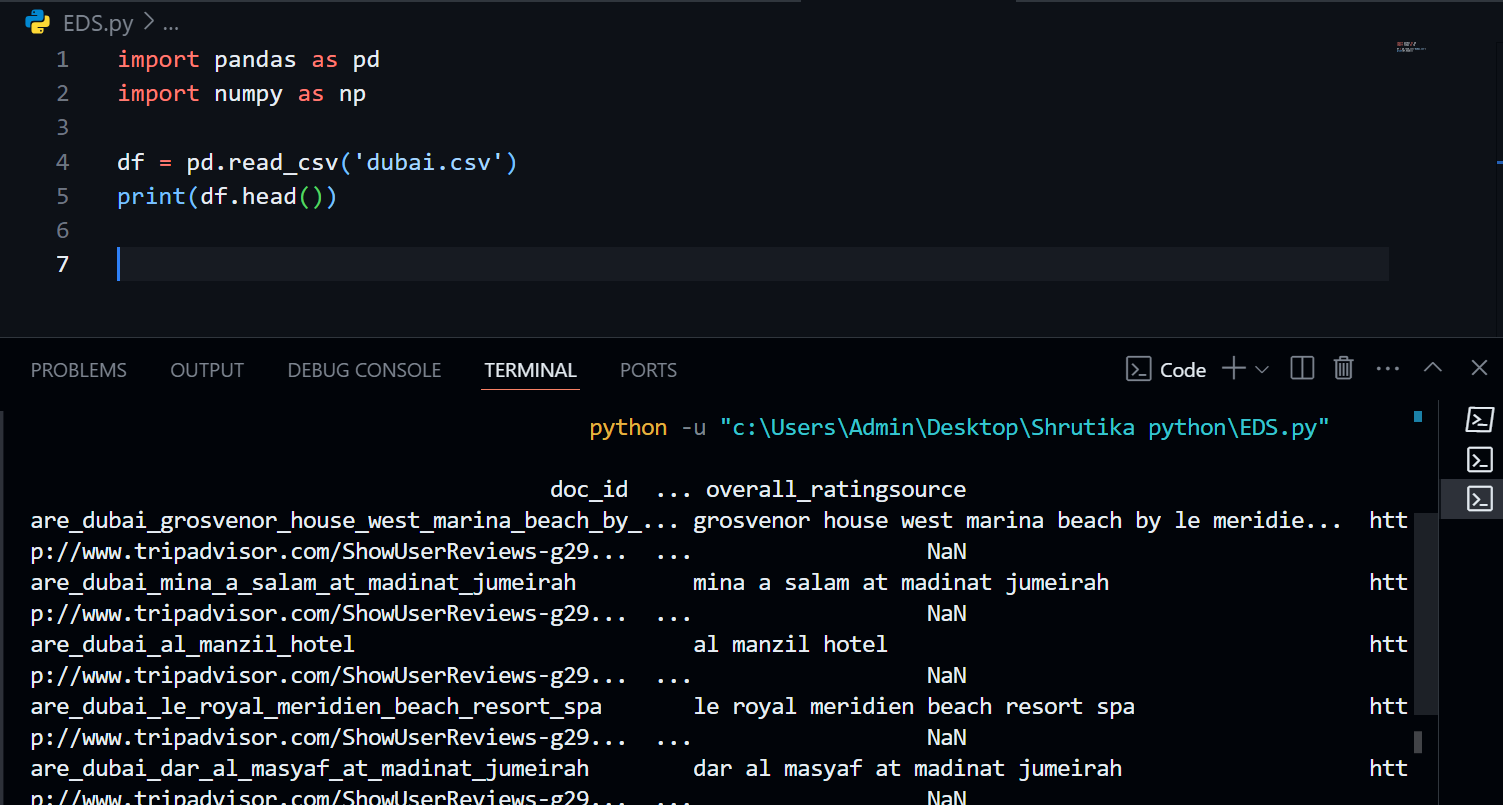
Roll No.:- CS7-15

PRN:- 202401080067

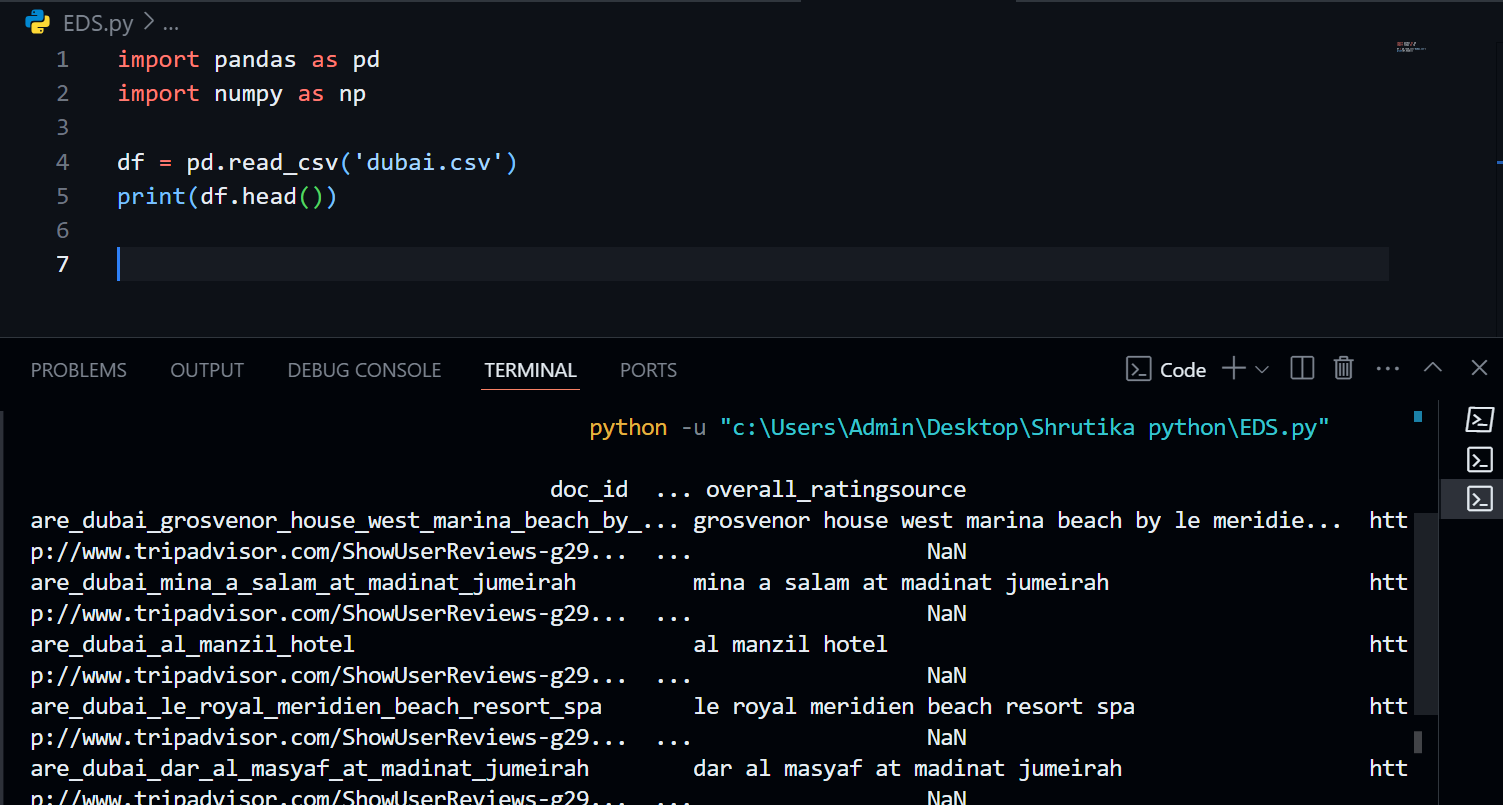
Subject:- EDS

**ACTIVITY -1**

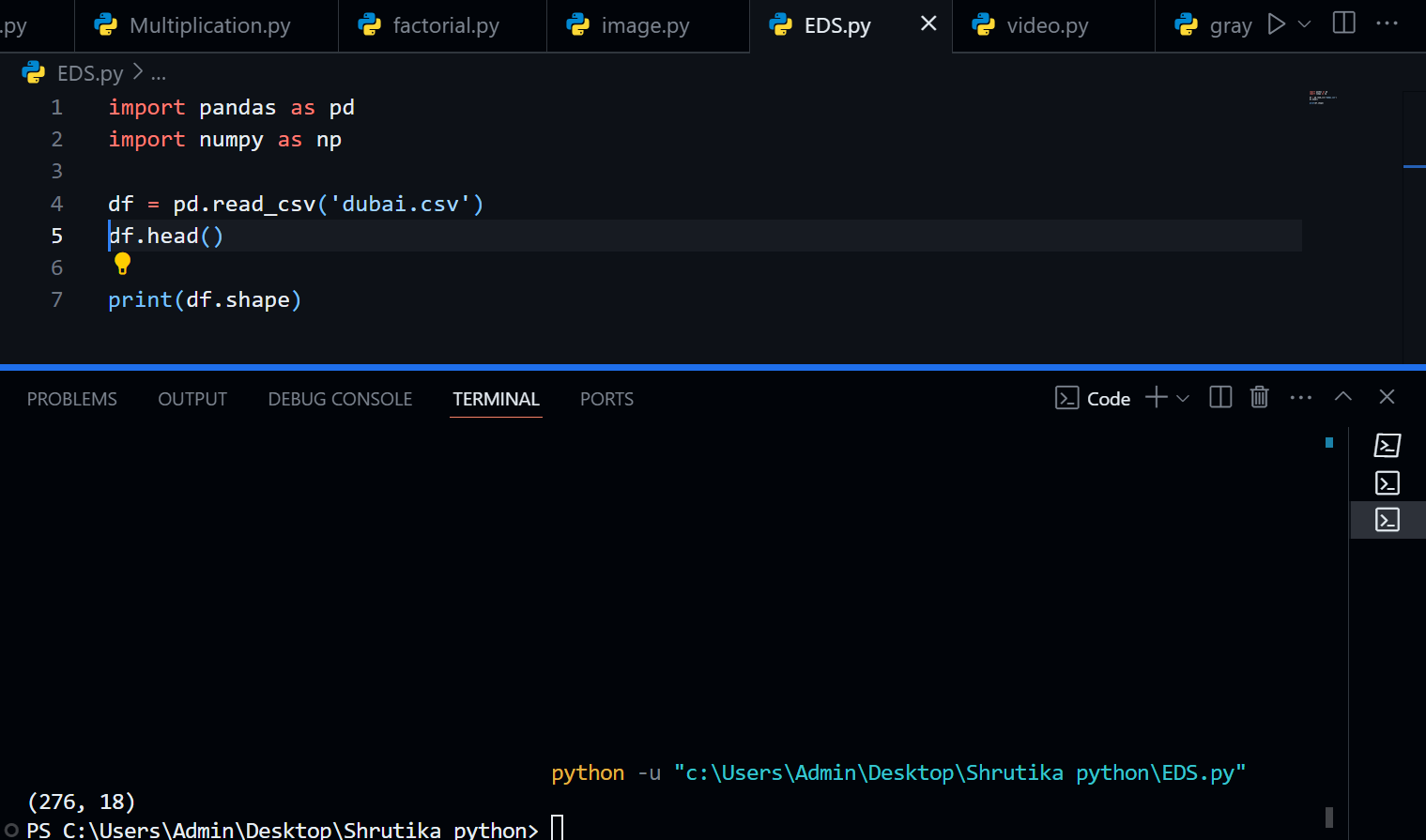
1. **Load the Dubai hotel review dataset into a dataframe.**

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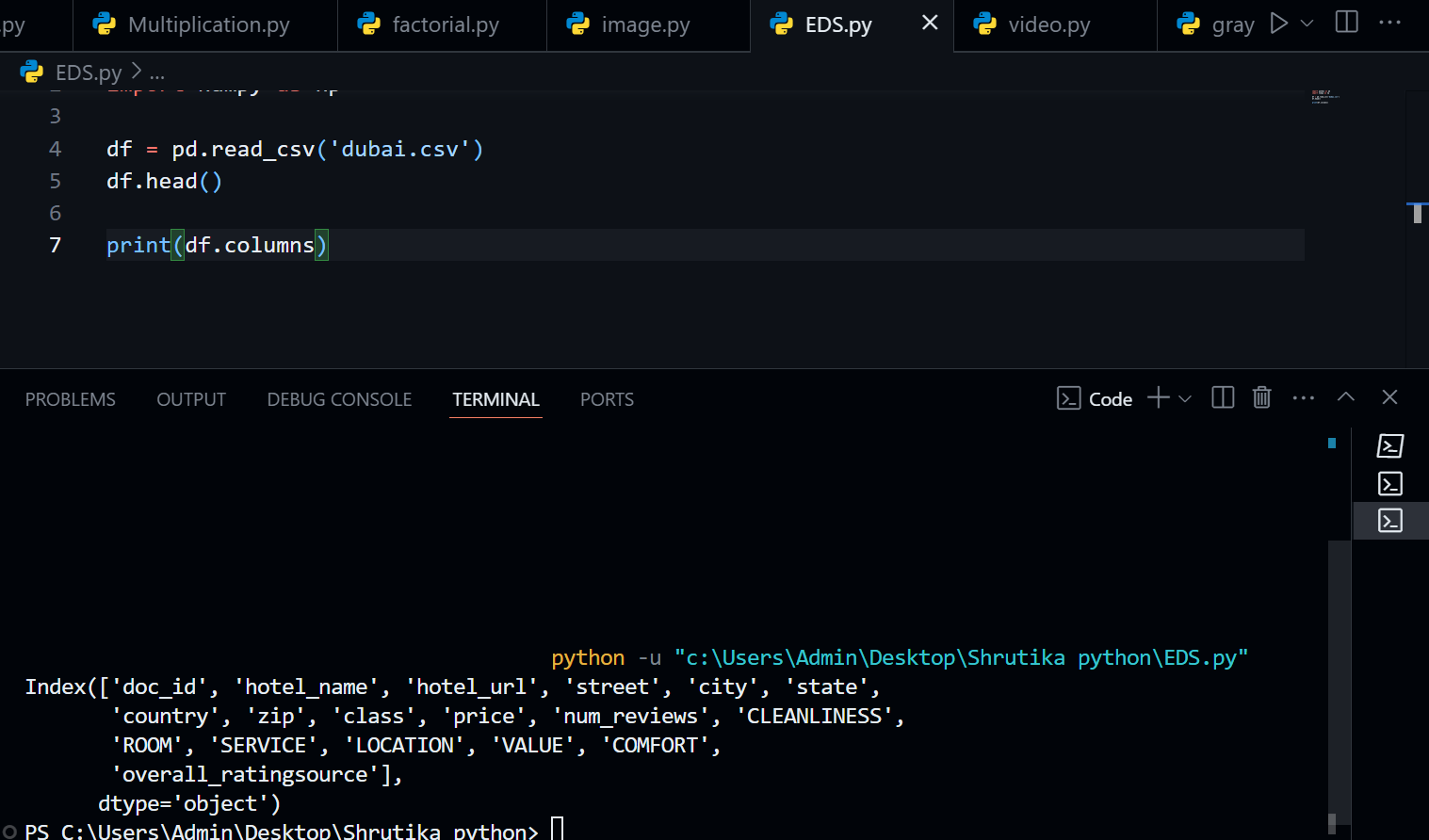
1. **Show the first 5 rows of the dataset.**

****

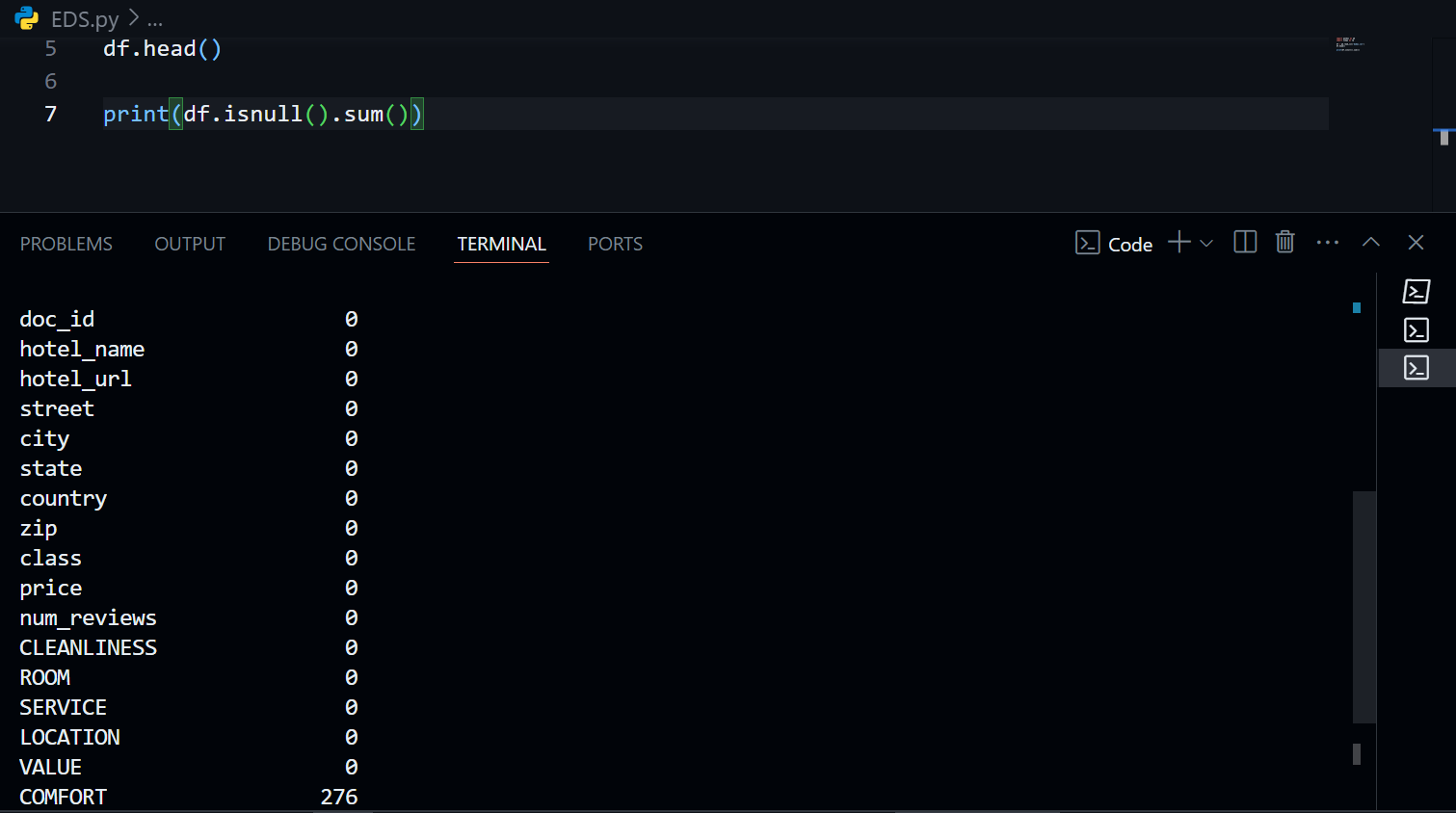
1. **Check the number of rows and columns in the dataset.**

****

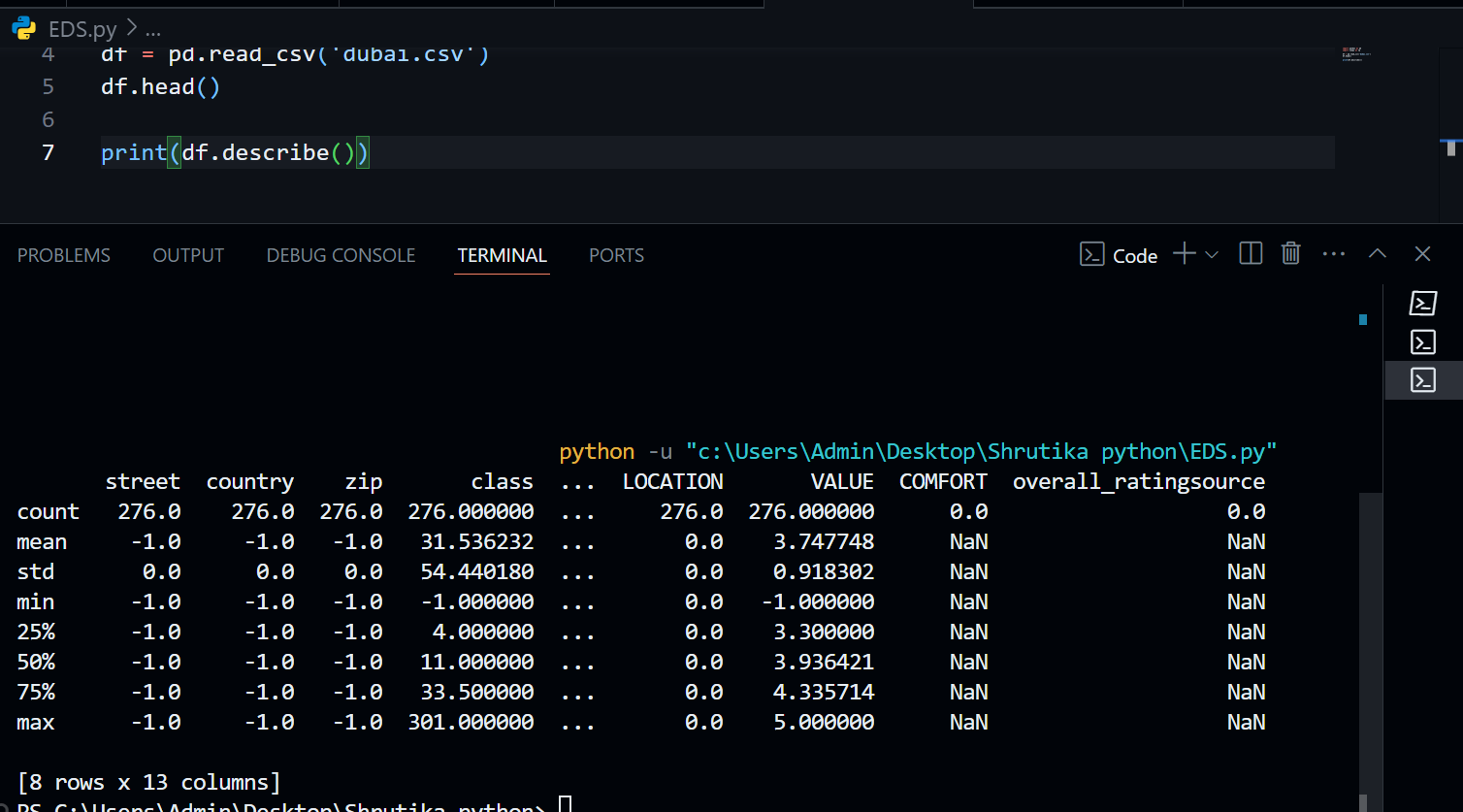
1. **Get all column names of the dataset.**

****

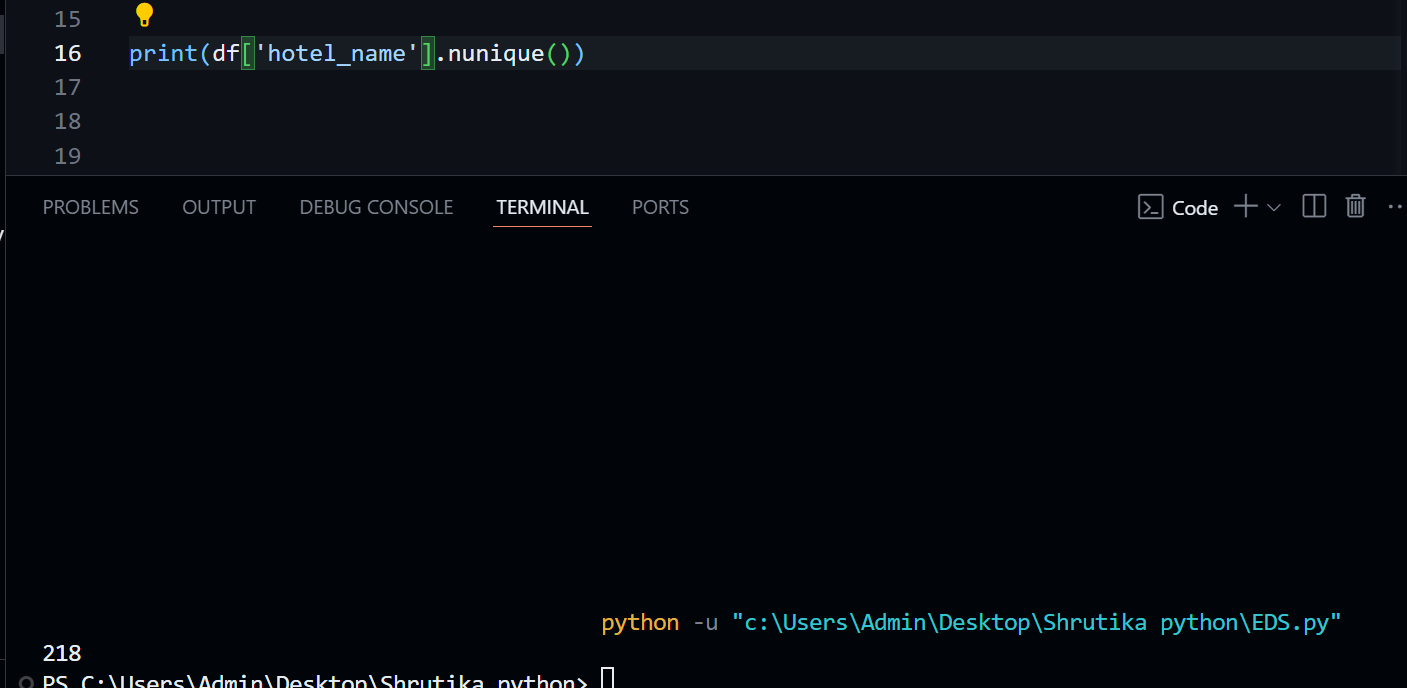
1. **Find how many missing (null) values are present in each column.**

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1. **Display basic statistical details of the numerical columns.**

****

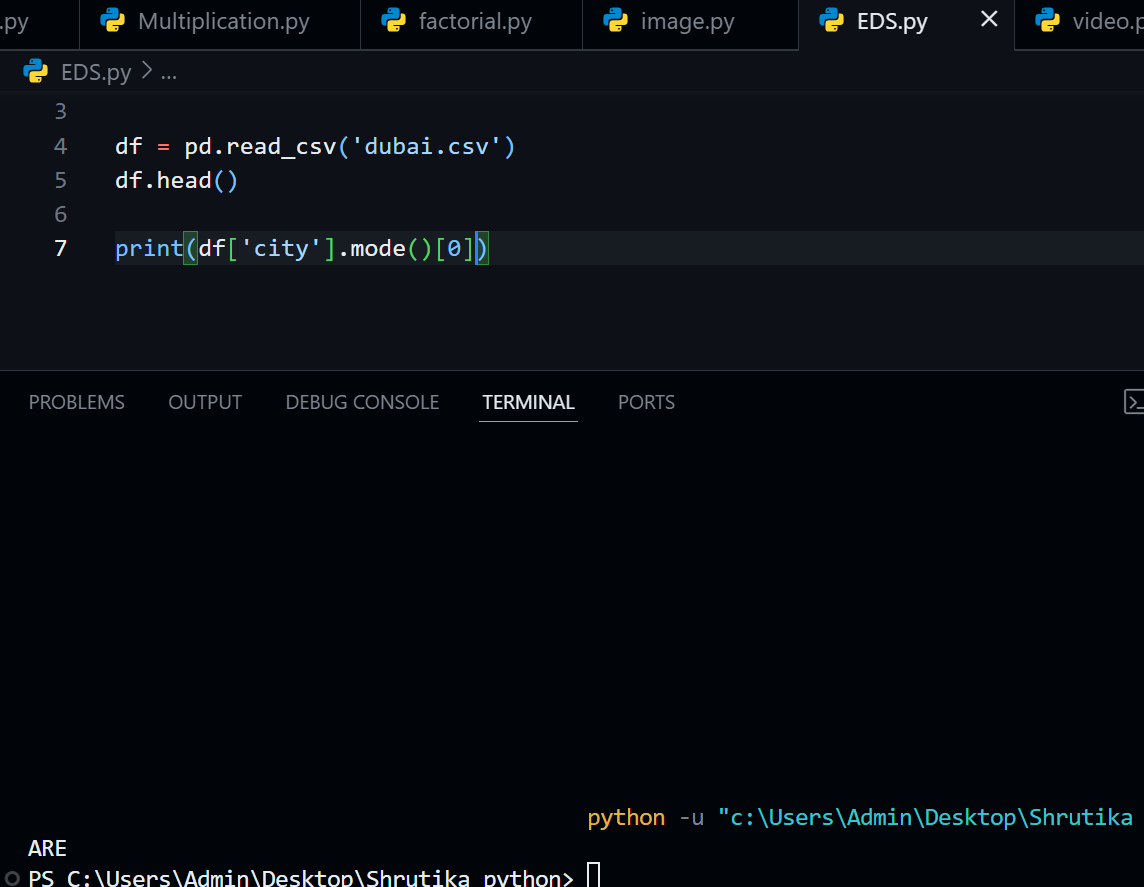
1. **Find how many unique hotel names are there.**

****

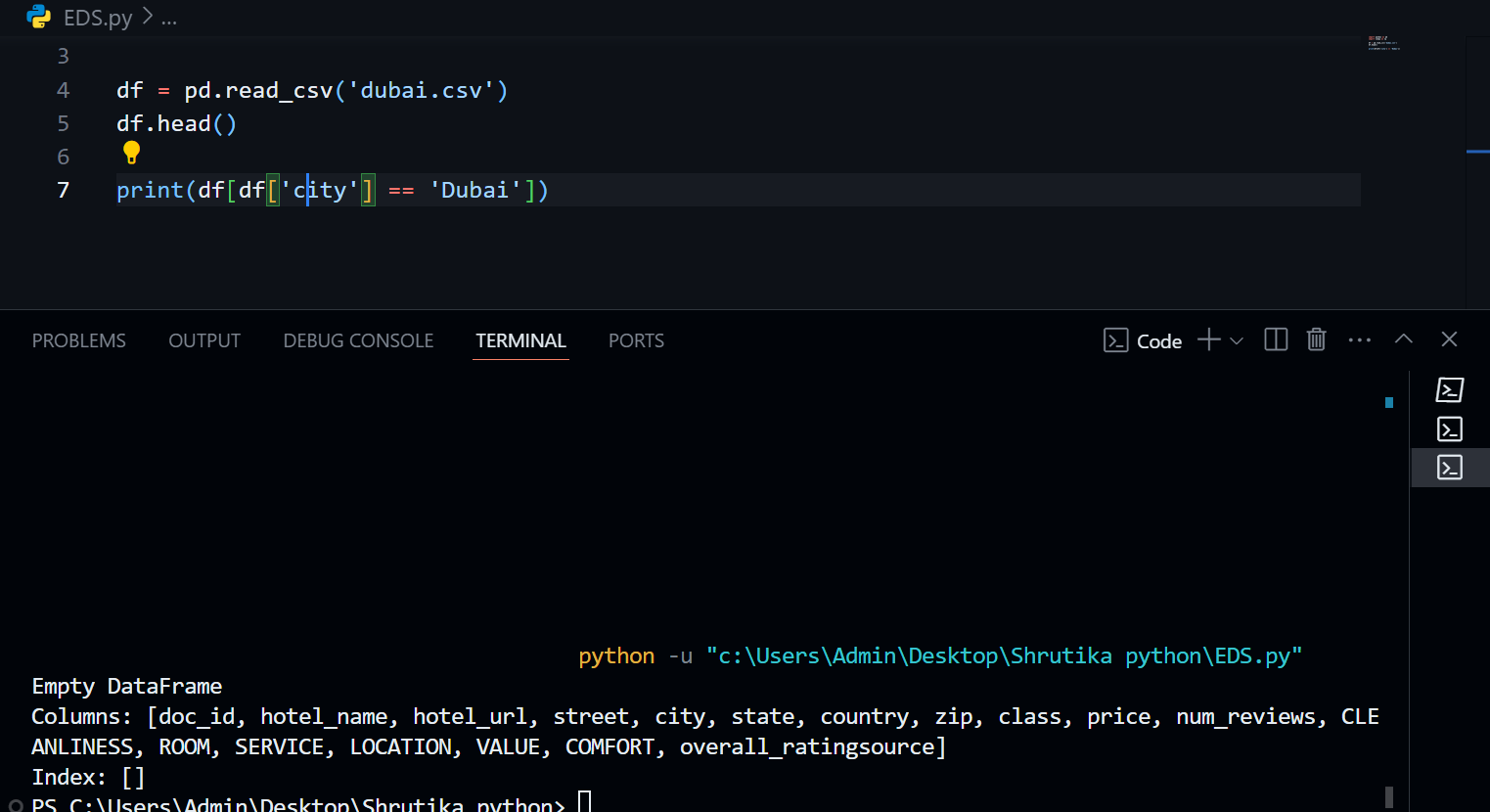
1. **List all unique city names in the dataset.**

****

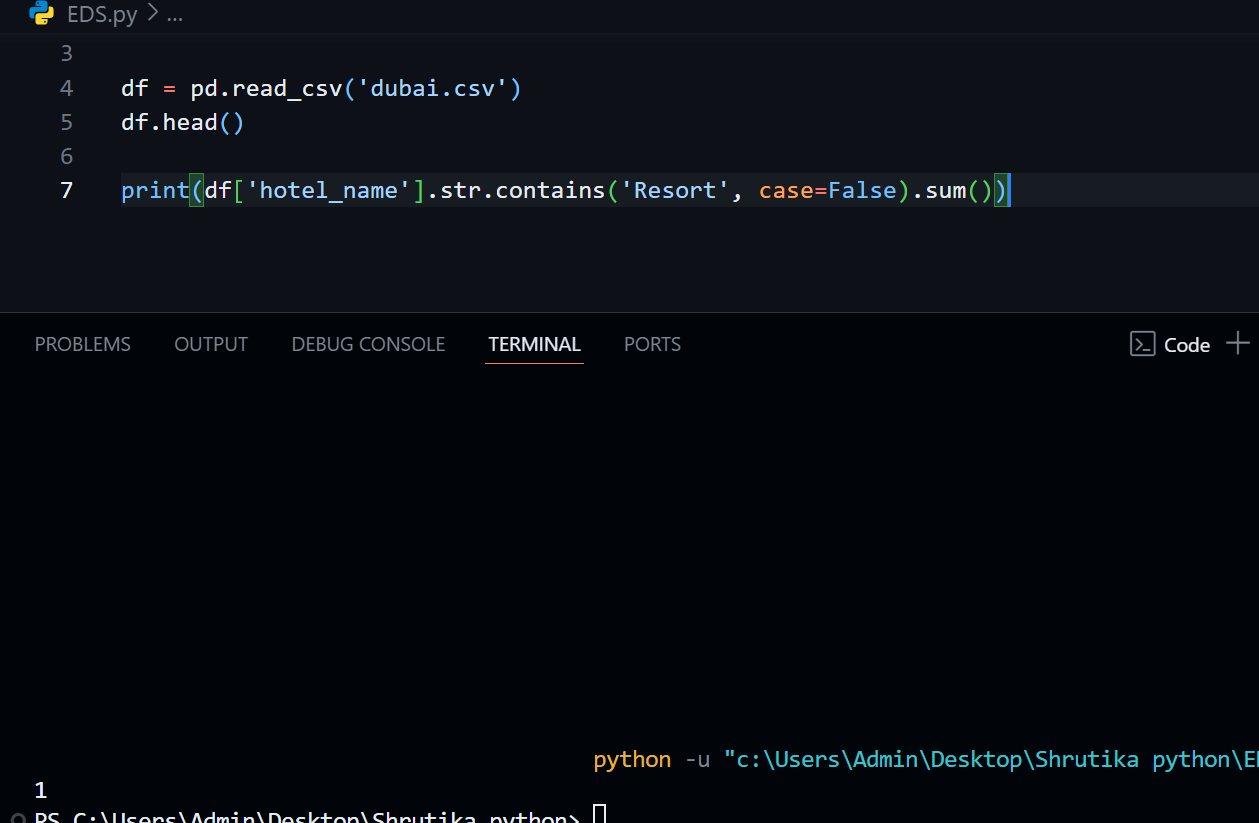
1. **Find the most common city in the dataset.**

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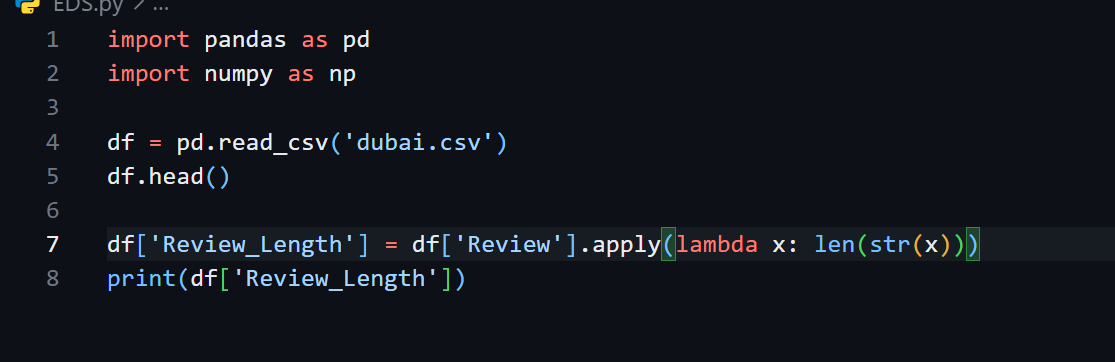
1. **Get all the reviews for hotels located in "Dubai".**

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1. **Count how many hotels have the word "Resort" in their hotel name.**

****

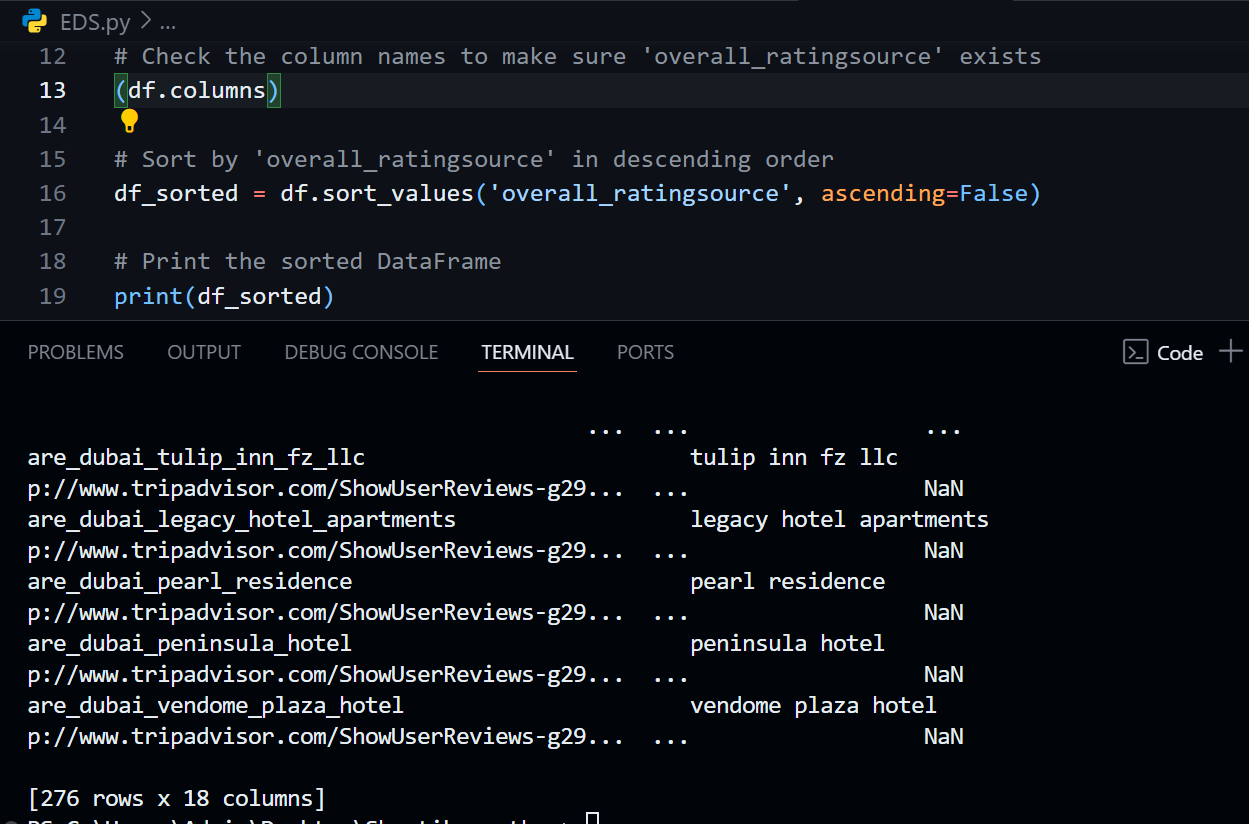
1. **Create a new column "Review\_Length" that stores the length of each review text.**

****

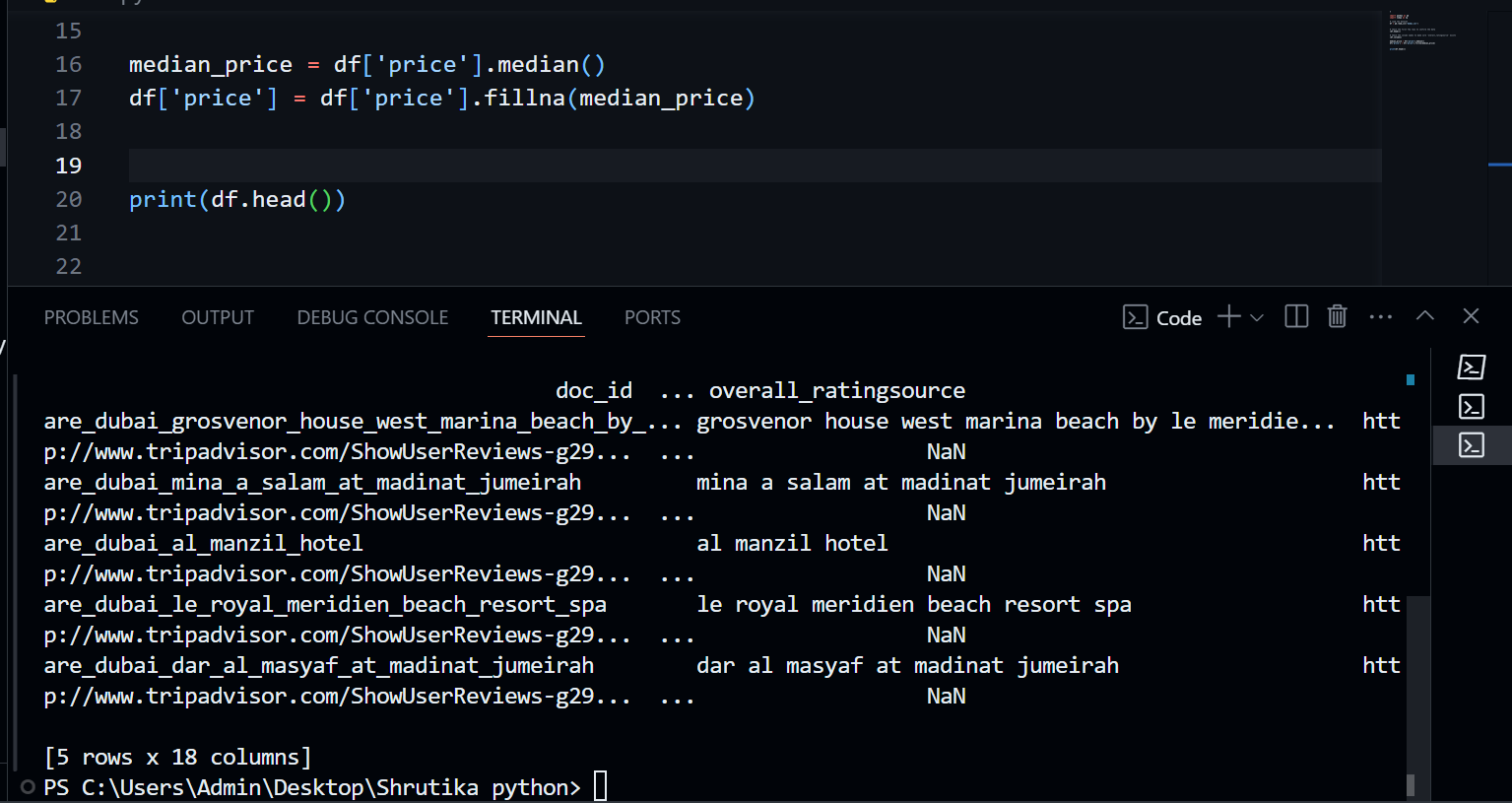
1. **Find the hotel with the maximum average rating.**

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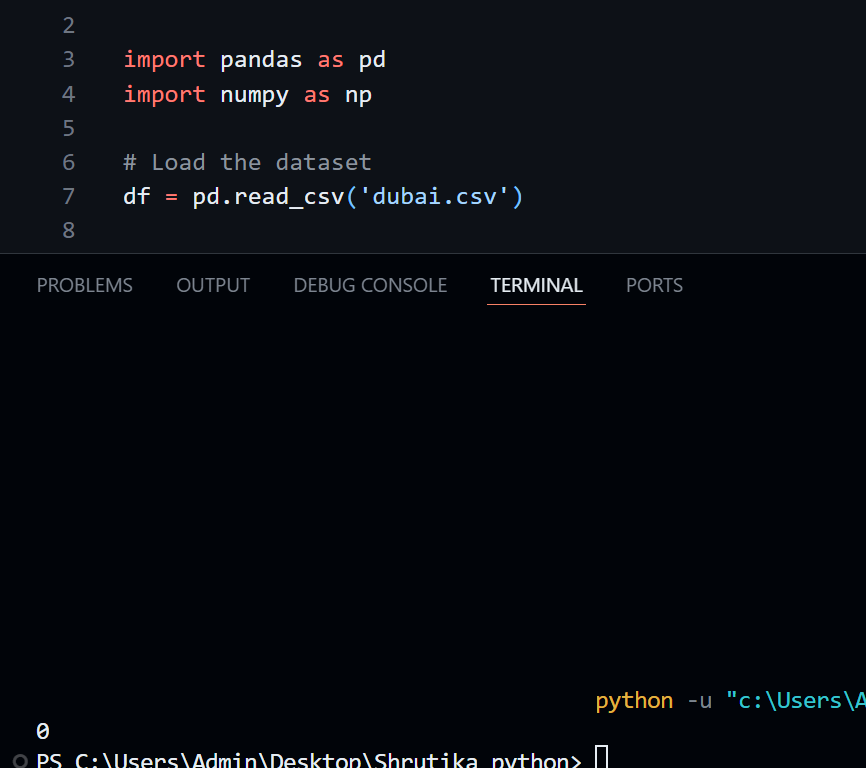
1. **Sort the dataset by "Overall\_Rating" in descending order.**

****

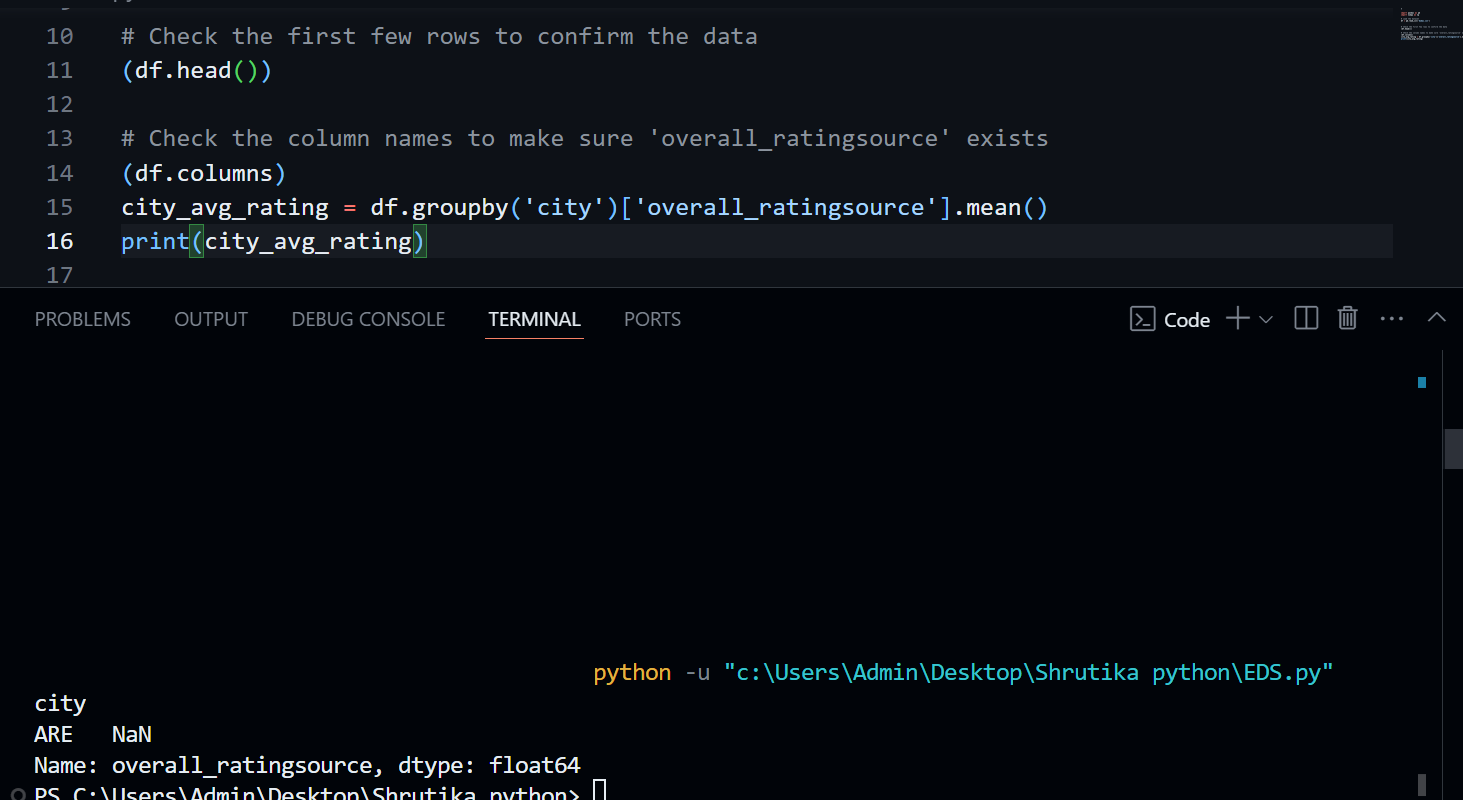
**15 Replace any missing or null values in the price column with the median price**

****

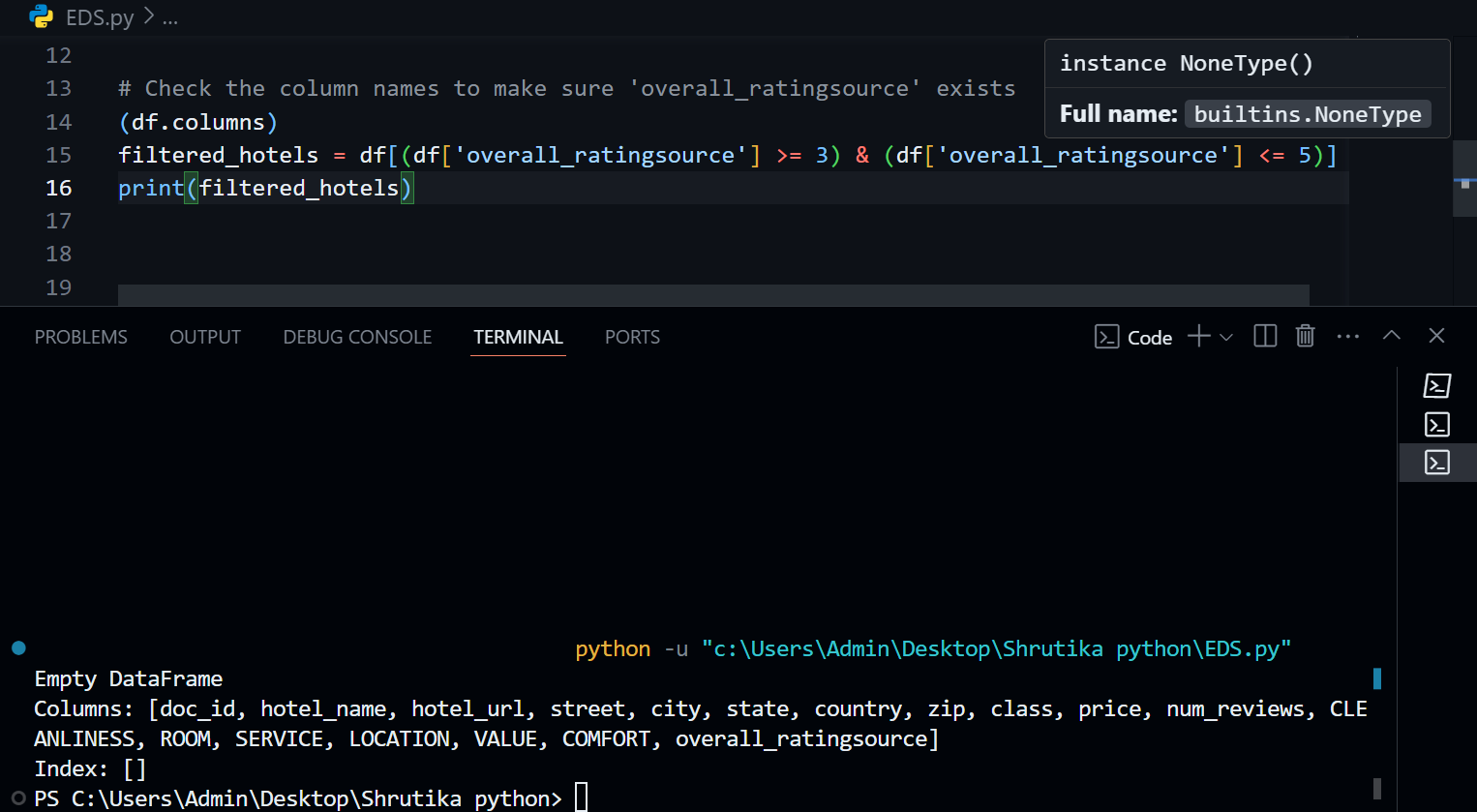
1. **Find how many reviews have an overall rating greater than 4.**

****

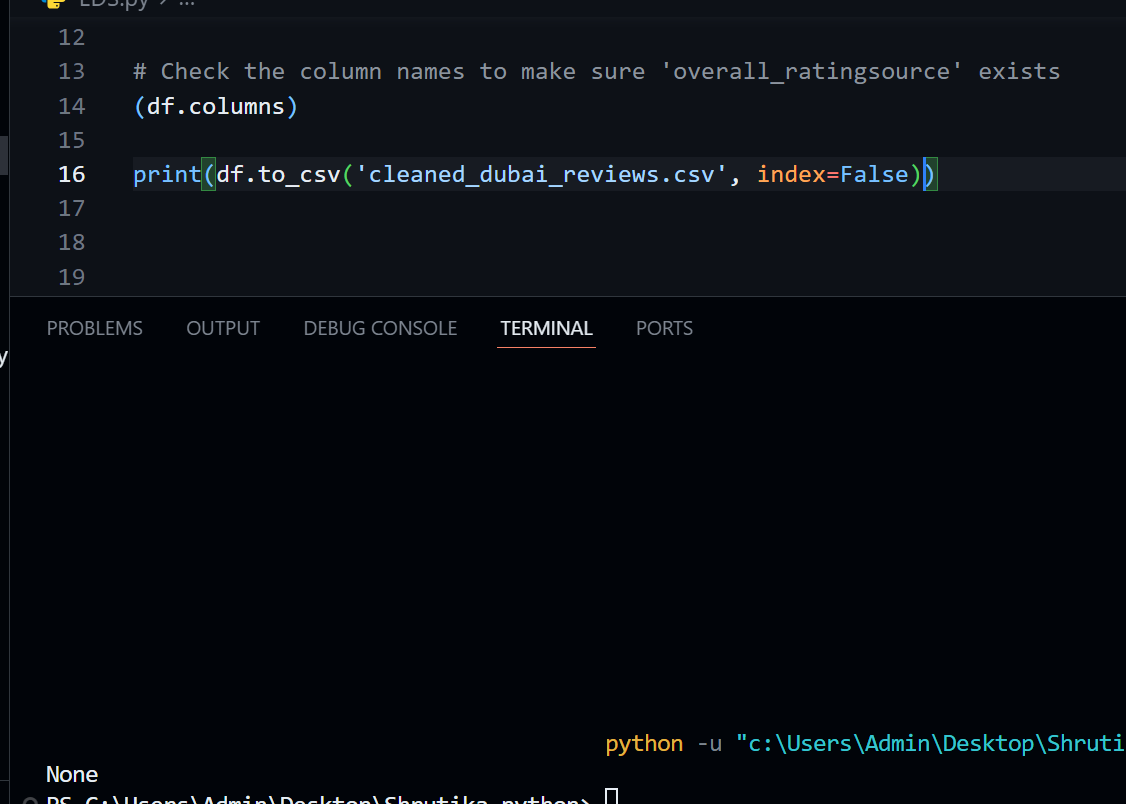
1. **Group by "City" and find the average rating per city.**

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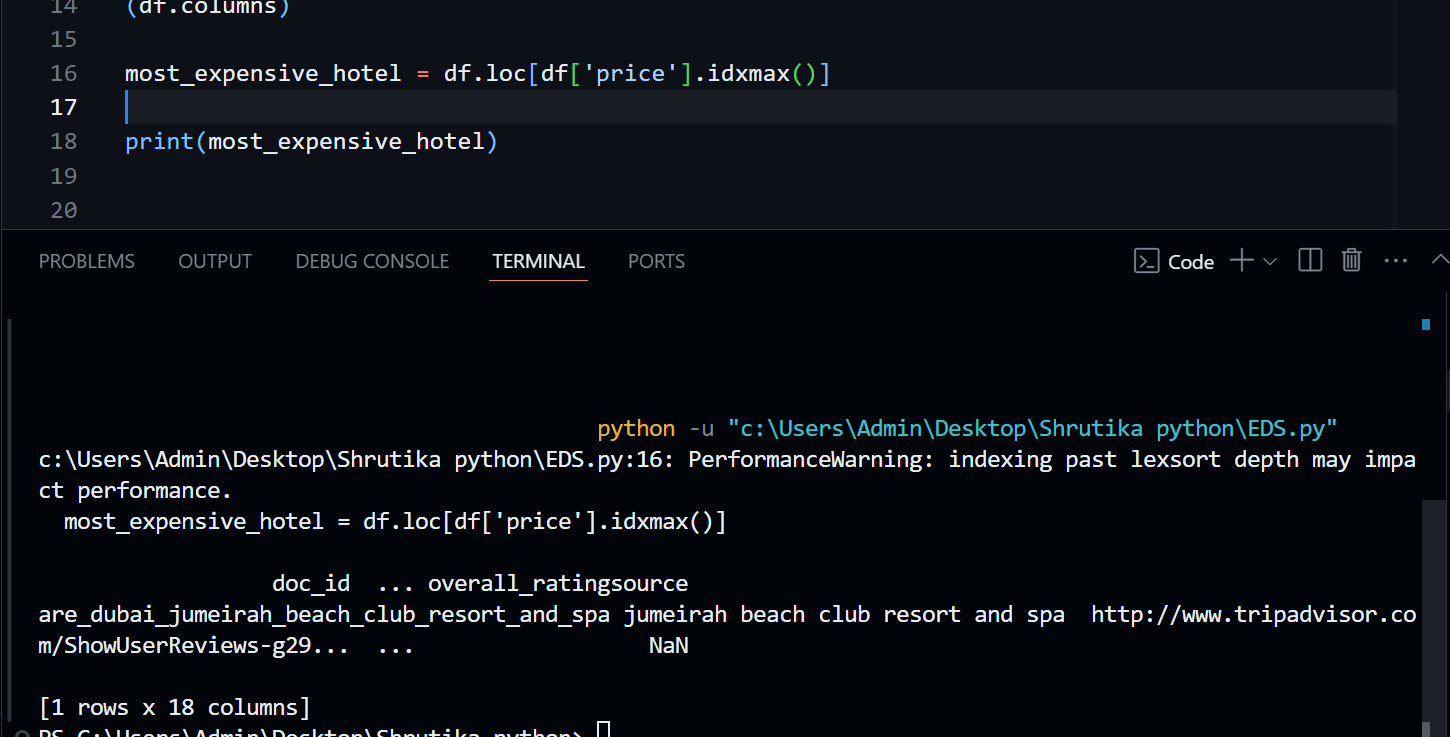
1. **Filter and show hotels with a rating between 3 and 5 only.**

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1. **Export the cleaned dataframe into a new CSV file called cleaned\_dubai\_reviews.csv.**

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1. **F** **ind the most expensive hotel.**

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