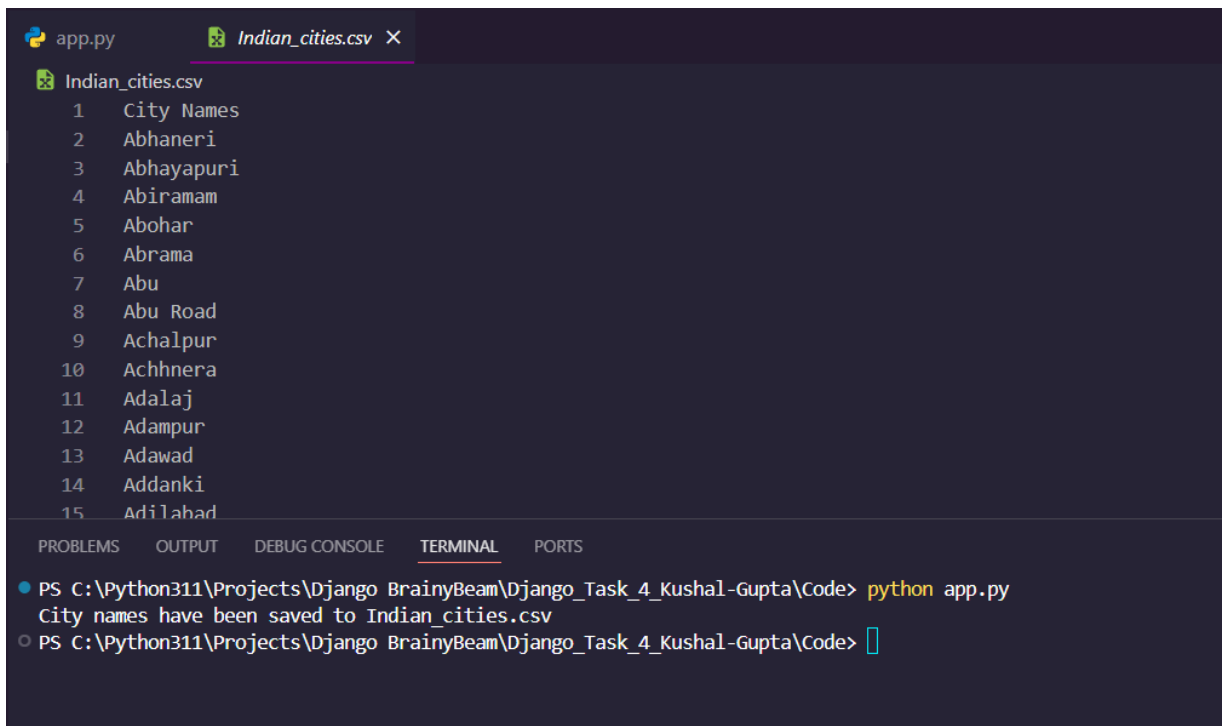


Task 4

1. Task Description:

Build a function which returns all cities of India and saves in a .csv (USE API).

2. Task Output Screenshot:



```
app.py Indian_cities.csv x
Indian_cities.csv
1 City Names
2 Abhaneri
3 Abhayapuri
4 Abiramam
5 Abohar
6 Abrama
7 Abu
8 Abu Road
9 Achalpur
10 Achhnera
11 Adalaj
12 Adampur
13 Adawad
14 Addanki
15 Adilabad

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Python311\Projects\Django BrainyBeam\Django_Task_4_Kushal-Gupta\Code> python app.py
City names have been saved to Indian_cities.csv
PS C:\Python311\Projects\Django BrainyBeam\Django_Task_4_Kushal-Gupta\Code> 
```

3. Algorithm Used in Task:

The algorithm used in the provided code is a simple API call to fetch city names from a country code. Specifically:

- 1) The algorithm constructs an API URL to retrieve city data for the given country code ("in" for India).
- 2) It sets up the necessary headers for the API request, including an API key.
- 3) It sends a GET request to the API endpoint with the country code as a parameter.
- 4) If the API response contains city data, the algorithm saves the city names to a CSV file named "Indian_cities.csv".
- 5) If there is an error during the API request, the algorithm prints an error message.

This algorithm is a straightforward way to fetch and save city data for a given country using an external API.

API Used:

Country State City API (<https://countrystatecity.in/docs>)