

Assignment: Working with Files – Countries and Population Data

Instructions:

1. Dataset

A text file named `countries_population.txt` is provided.

Each line in the file contains a country name and its population, separated by a comma.

Example contents of `countries_population.txt` :

```
USA, 331002651
India, 1380004385
China, 1439323776
Brazil, 212559417
Nigeria, 206139589
```

2. Tasks

- **a. Read the File:**

Open and read the `countries_population.txt` file.

- **b. Process the Data:**

For each country:

- Remove any leading/trailing spaces.
- Convert the population to an integer.

- **c. Display Information:**

Print out:

- Total number of countries
- The country with the highest population

- The country with the lowest population
- The average population
- Sort all countries by their population in descending order and display the top 5 countries.

- **d. Save to New File:**

Create a new file called `high_population_countries.txt` and write the names of countries whose population is greater than **500 million**.

Submission Requirements:

- Your Python script (`assignment.py`)
 - The new text file (`high_population_countries.txt`) generated by your program
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