Coding Assignment

Write a java program to get COVID-19 data from https://covid19api.com/

The program should:

- Get data for supported countries made available by the API.
- Write the data in a CSV file with the following headers: Date, Country, Confirmed, Deaths, Recovered, Active
- Accept command line parameters to only collect data for a specific date range and a maximum of four supported countries. If no parameters are provided by the user, the default behavior will be to collect data for the past week for Canada and South Africa.
- Group the data by Country and sorted by Date.
  e.g.
  2021-03-01T00:00:00Z, Canada, 1, 0, 0, 0
  2021-03-02T00:00:00Z, Canada, 6, 0, 0, 0
  2021-03-01T00:00:00Z, South Africa, 2, 0, 0, 0
  2021-03-02T00:00:00Z, South Africa, 8, 0, 0, 0
- We should be able to run the program from the command prompt. Please provide instructions, source code, and a jar with all the dependencies.

Optional challenge #1: The program will calculate a new column named "New Cases", which equals the number of confirmed cases minus the previous day's value.

Optional challenge #2: If the program is run multiple times, data already existing in the file will be skipped, and new data will be appended to the file while maintaining the correct sorting.

Optional challenge #3: The program will now create two CSV files. The first one will be the previous CSV file mentioned above. The second CSV file will be a summary report containing the summary of the confirmed cases for each country. The program will calculate max/min/avg based on each run and save the data in CSV file. This will be new summary report on each run, which means there is no need to maintain the previous data. The CSV should have the following headers: Country, Max Confirmed, Min Confirmed, Average Confirmed.
e.g.
Canada, 2,1,1.5
South Africa,8, 2,4

We recommend sharing a zip file with google drive or any other popular cloud storage platform.