Question 4 - Write a program to download the data from the link given below and then read the data and convert the into the proper structure and return it as a CSV file.

Link - https://data.nasa.gov/resource/y77d-th95.json

Note - Write code comments wherever needed for code understanding.

Excepted Output Data Attributes

- Name of Earth Meteorite string id ID of Earth
- Meteorite int nametype string recclass string
- mass Mass of Earth Meteorite float year Year at which Earth
- Meteorite was hit datetime format reclat float recclong float
- point coordinates list of int

Ans:

```
In [2]: import requests
        import json
        import csv
In [3]: def download data(url):
             response = requests.get(url)
             data = response.json()
             return data
        def convert_to_csv(data):
            attributes = ['name', 'id', 'nametype', 'recclass', 'mass (g)', 'year', 'reclat', 'reclong', 'coordinates']
             with open('meteorite data.csv', 'w', newline='', encoding='utf-8') as csvfile:
                 writer = csv.writer(csvfile)
                 writer.writerow(attributes)
                 for meteorite in data:
                     row = [
                          meteorite.get('name', ''),
                          meteorite.get('id', ''),
                         meteorite.get('nametype', ''),
meteorite.get('recclass', ''),
meteorite.get('mass (g)', ''),
                          meteorite.get('year', ''),
                          meteorite.get('reclat', ''),
                          meteorite.get('reclong', ''),
                          meteorite.get('geolocation', {}).get('coordinates', [])
                     writer.writerow(row)
             print("CSV file generated successfully!")
        # Provide the URL to download the data from
        url = "https://data.nasa.gov/resource/y77d-th95.json"
        # Download the data
        data = download_data(url)
        # Convert and save the data as a CSV file
        convert_to_csv(data)
        CSV file generated successfully!
```

In []:

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