**Assistance – Task 1**

1. **Path Construction**:
   * ChatGPT recommended using os.path.join(path, files), which I incorporated to ensure consistent path construction across different operating systems.
2. **Column Filtering with .isin**:
   * ChatGPT introduced the .isin method for filtering columns in data frames. I used this for filtering specific region codes (e.g., 'NO2', 'DE\_LU').
3. **Conversion to DataFrames with pd.DataFrame()**:
   * ChatGPT suggested using pd.DataFrame() to convert dictionaries or lists to data frames.
4. **Plotting with Matplotlib**:
   * The process of data visualization, including importing matplotlib.pyplot as plt and constructing scatter plots, was guided by ChatGPT.

**Assistance - Task 3**

Assistance from Chat

1. **Rounding values with round()**
   * ChatGPT introduced the use of the round() method to format numerical outputs
2. **Using a Dictionary**
   * ChatGPT provided the idea of using a dictionary structure to efficiently store and organize statistical data for each year and region.

**Assistance - Task 4**

1. **Data Transformation Using apply with Lambda Functions**
   * ChatGPT suggested a conditional lambda function to classify each row in FlowType as either 'export' or 'import' based on OutMapCode and InMapCode values
   * ChatGPT suggested that I make exports positive and imports negative using lambda

**Assistance - Task 5**

1. **Resampling and Calculating Weekly Averages**
   * ChatGPT suggested using the resample method with the 'W' frequency to calculate the weekly average price difference.
2. **Merging DataFrames for Combined Analysis**
   * For mergin the data frames weekly\_net\_export\_df and weekly\_avg\_price\_difference, ChatGPT recommended using pd.merge()
3. **Calculating Correlation**
   * For calculating the correlation, ChatGPT introduced the .corr() method