Weather-Report Analysis With Pandas

1. **Import pandas library**: First, you need to import the pandas library in your notebook. To do that, you can simply write the following code:

   CODE- import pandas as pd

2. **Load the CSV file:** Next, you need to load the CSV file containing your weather report dataset into a pandas DataFrame. You can do that by using the read_csv() function, as follows:

   CODE- df = pd.read_csv('path/to/your/weather_report.csv')

   *Replace path/to/your/weather_report.csv with the actual path to your CSV file.
   * Here df represents the dataframe name, which is named as weather in jupyter notebook

3. **Explore the dataset:** Once you have loaded the CSV file into a DataFrame, you can start exploring the dataset. You can use the following pandas functions to get a better understanding of your data:

   - ✓ **df.head():** This function displays the first 5 rows of your DataFrame.
   - ✓ **df.tail():** This function displays the last 5 rows of your DataFrame.
   - ✓ **df.info():** This function displays information about your DataFrame, such as the number of rows and columns, the data type of each column, and the number of non-null values.
   - ✓ **df.describe**(): This function displays statistical information about your DataFrame, such as the mean, standard deviation, and quartiles of each column.

4. **Analyze the dataset:** After exploring the dataset, you can start analyzing the data using pandas functions. Some examples of analysis you can perform include:

   - ✓ Sorting the data based on a specific column using df.sort_values().
   - ✓ Filtering the data based on certain conditions using df.loc[] or df.query().
   - ✓ Grouping the data based on a specific column using df.groupby().

5. **Define pandas attributes:** The notebook you are working on already provides basic pandas and attribute definitions, which you can use as a reference when working with your dataset. You can also refer to the pandas documentation for more information about pandas functions and attributes.