**Step 1: Data Loading and Preprocessing**

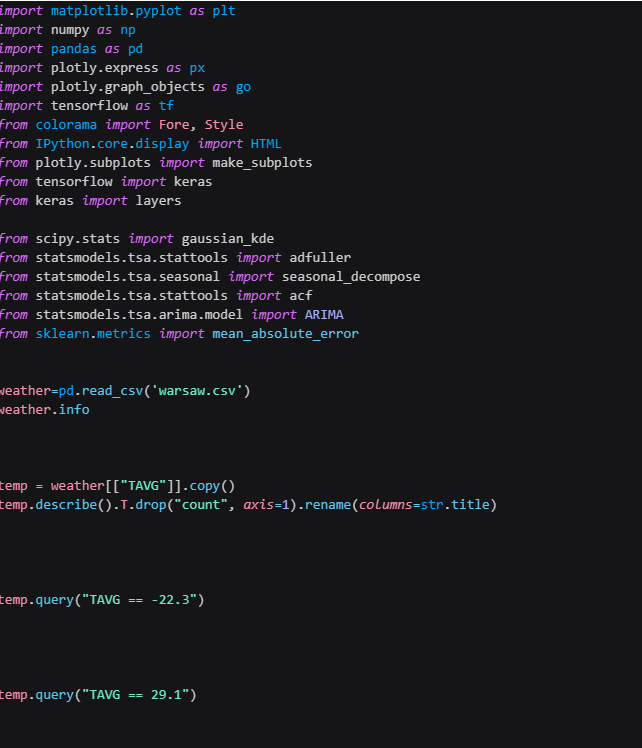
1. **Import necessary libraries: pandas, io, and files from google.colab.**
2. **Upload the CSV file (mock\_kaggle.csv) using files.upload().**
3. **Read the CSV file into a pandas DataFrame using pd.read\_csv().**
4. **Assign column names to the DataFrame: 'date', 'sale', 'stock', 'price'.**
5. **Convert the 'date' column to datetime objects using pd.to\_datetime().**
6. **Handle missing values by filling them with the mean of each column.**
7. **Remove duplicate rows based on the index, keeping the first occurrence.**

**Step 2: Feature Engineering**

1. **Calculate the 7-day rolling mean of 'sale' and store it in a new column 'rolling\_mean\_sale'.**
2. **Extract the day of the week and month from the index and store them in new columns 'day\_of\_week' and 'month', respectively.**

**Step 3: Data Visualization**

1. **Import the matplotlib.pyplot library.**
2. **Create a figure and axes using plt.figure() and plt.subplots().**
3. **Plot the daily sales and 7-day rolling mean sales against the date.**
4. **Customize the plot with labels, title, legend, and gridlines.**
5. **Display the plot using plt.show().**

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