DATA EXPLORATION AND VISUALIZATION

EXPERIMENT-4 PERFORMING GROUPBY , SUM WITH HIGHEST TEMPERATURE ACROSS EACH CITIES AND CITY WHICH AS HIGHEST TEMPERATURE

PROGRAM:  
import pandas as pd

df = pd.read\_csv("C:/Users/ROHITH/Downloads/Temperature.csv")

df['Date'] = pd.to\_datetime(df['Date'], dayfirst=True)

df['Month'] = df['Date'].dt.strftime('%B')

grouped = df.groupby(['City', 'Month'])['Temperature'].sum().reset\_index()

pivot\_table = grouped.pivot(index='City', columns='Month', values='Temperature').fillna(0)

pivot\_table['Total\_Temperature'] = pivot\_table.sum(axis=1)

max\_temp\_city = pivot\_table['Total\_Temperature'].idxmax()

max\_temp\_value = pivot\_table['Total\_Temperature'].max()

print("\nPivot Table (City vs Month-wise Temperature Sum):")

print(pivot\_table)

print(f"\nCity with highest total temperature: {max\_temp\_city} ({max\_temp\_value}°C)")

OUTPUT:

