import matplotlib.pyplot as plt

# Load CSV data

df = pd.read\_csv("covid\_data.csv")

# Preview data

print("First 5 rows:\n", df.head())

# Add Active Cases column

df['Active'] = df['Cases'] - df['Deaths'] - df['Recovered']

# Total cases & deaths per country

total\_cases = df.groupby('Country')['Cases'].sum()

total\_deaths = df.groupby('Country')['Deaths'].sum()

print("\nTotal Cases:\n", total\_cases)

print("\nTotal Deaths:\n", total\_deaths)

# Highest single-day cases

max\_cases = df['Cases'].max()

print("\nHighest Cases in a Single Day:", max\_cases)

# Filter data for India

india\_data = df[df['Country'] == 'India']

# Plot COVID trend for India

plt.figure(figsize=(8,5))

plt.plot(india\_data['Date'], india\_data['Cases'], marker='o', color='blue', label='Cases')

plt.plot(india\_data['Date'], india\_data['Deaths'], marker='x', color='red', label='Deaths')

plt.plot(india\_data['Date'], india\_data['Recovered'], marker='s', color='green', label='Recovered')

plt.title("COVID-19 Trend in India")

plt.xlabel("Date")

plt.ylabel("Number of People")

plt.legend()