15. Scenario: You are a data analyst working for a social media platform. As part of your analysis,

you have a dataset containing user interaction data, including the number of likes received by each

post. Your task is to develop a Python program that calculates the frequency distribution of likes

among the posts.

Question: Develop a Python program to calculate the frequency distribution of likes among the

posts?

Code:

**import** pandas **as** pd

**import** matplotlib.pyplot **as** plt

df **=** pd.read\_csv(r"C:\Users\vara prasad\Downloads\frequency\_distribution.csv")

like\_distribution **=** df['likes'].value\_counts().sort\_index()

print("Frequency Distribution of Likes:")

print(like\_distribution)

*# Optional: Visualize*

like\_distribution.plot(kind**=**'bar', figsize**=**(10, 6), title**=**'Frequency Distribution of Likes')

plt.xlabel('Number of Likes')

plt.ylabel('Number of Posts')

plt.grid(axis**=**'y', linestyle**=**'--', alpha**=**0.7)

plt.tight\_layout()

plt.show()

output:

