Qusetion 15

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?

Answer:

import pandas as pd

import matplotlib.pyplot as plt

df = pd.read\_csv(r"D:\datasets\dataset 2.0.csv", encoding='ISO-8859-1')

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:

