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:

#15

import pandas as pd

df = pd.read\_excel(r"C:\Users\hares\Downloads\q15\_30.xlsx")

likes\_frequency = df['likes'].value\_counts().sort\_index()

print("Frequency Distribution of Likes Among Posts:")

print(likes\_frequency)

output :

Frequency Distribution of Likes Among Posts:

likes

10 2

15 1

25 3

30 1

40 2

50 1

Name: count, dtype: int64

Dataset :

|  |  |
| --- | --- |
| **post\_id** | **likes** |
| 1 | 25 |
| 2 | 40 |
| 3 | 15 |
| 4 | 25 |
| 5 | 10 |
| 6 | 40 |
| 7 | 50 |
| 8 | 25 |
| 9 | 30 |
| 10 | 10 |