Question14:

14. Scenario: You are a data analyst working for a company that sells products online. You have

been tasked with analyzing the sales data for the past month. The data is stored in a Pandas data

frame.

Question: Develop a code in python to find the frequency distribution of the ages of the customers

who have made a purchase in the past month.

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')

age\_counts = df['Age'].value\_counts().sort\_index()

print(age\_counts)

# Optional: Plot the distribution

plt.figure(figsize=(12, 6))

age\_counts.plot(kind='bar')

plt.title("Frequency Distribution of Customer Ages")

plt.xlabel("Age")

plt.ylabel("Frequency")

plt.grid(True)

plt.tight\_layout()

plt.show()

Output:

