2.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 NumPy array.

Question: How would you find the average price of all the products sold in the past month? Assume 3x3 matrix with each row representing the sales for a different product

**CODE:**

import numpy as np

import pandas as pd

df = pd.read\_csv(r'C:\Users\hp\Desktop\sales\_data.csv', index\_col=0)

sales\_data = df.to\_numpy()

products = ['Product A', 'Product B', 'Product C']

average\_price = np.mean(sales\_data)

print("Sales data (prices of products sold):")

print(sales\_data)

print(f"\nAverage price of all products sold in the past month: ${average\_price:.2f}")

**OUTPUT:**



**DATASET:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Units\_Sold | Price\_Per\_Unit | Total\_Sales | |
| Product\_1 | 10 | 20 | 200 |  |
| Product\_2 | 5 | 50 | 250 |  |
| Product\_3 | 8 | 30 | 240 |  |
|  |  |  |  |  |