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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

Program :

#2

import numpy as np

import pandas as pd

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

print("Sales Data from Excel:\n", df)

sales\_data = df.to\_numpy()

average\_price = np.mean(sales\_data[:, 0])

print("\nAverage price of all products sold:", average\_price)

output:

Sales Data from Excel:

Price Quantity Sold Discount (%) total before discount Revenue

0 250 30 10 7500 6750.00

1 300 20 5 6000 5700.00

2 150 45 15 6750 5737.50

3 400 18 8 7200 6624.00

4 500 12 5 6000 5700.00

5 220 40 12 8800 7744.00

6 180 50 10 9000 8100.00

7 260 28 7 7280 6770.40

8 320 24 6 7680 7219.20

9 410 15 4 6150 5904.00

10 290 32 9 9280 8444.80

11 370 22 5 8140 7733.00

12 200 36 12 7200 6336.00

13 430 14 5 6020 5719.00

14 275 31 7 8525 7928.25

15 310 26 10 8060 7254.00

16 240 38 11 9120 8116.80

17 355 20 5 7100 6745.00

18 390 19 4 7410 7113.60

19 280 29 8 8120 7470.40

Average price of all products sold: 306.5

Dataset:

Price Quantity Sold Discount (%) total before discount Revenue

0 250 30 10 7500 6750.00

1 300 20 5 6000 5700.00

2 150 45 15 6750 5737.50

3 400 18 8 7200 6624.00

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