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import pandas as pd
import numpy as np

data = {
    'Product': ['Laptop', 'Mouse', 'Monitor', 'Keyboard', 'Laptop', 'Mouse', 'Monitor', 'Headphones', 'Laptop', 'Hea
    'Sales_USD': [1200, 25, 300, 50, 1200, 25, 300, 80, 1200, 80],
    'Quantity': [1, 2, 1, 3, 1, 5, 2, 4, 1, 2],
    'Date': pd.to_datetime(['2024-01-01', '2024-01-01', '2024-01-02', '2024-01-02', '2024-01-03', '2024-01-03', '202
}

df_sales = pd.DataFrame(data)

df_sales['Total_Price'] = df_sales['Sales_USD'] * df_sales['Quantity']

print("--- عينة من بيانات المتجر اللي صنعناها ---")
print(df_sales.head())

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--- عينة من بيانات المتجر اللي صنعناها ---

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	Product	Sales_USD	Quantity	Date	Total_Price
0	Laptop	1200	1	2024-01-01	1200
1	Mouse	25	2	2024-01-01	50
2	Monitor	300	1	2024-01-02	300
3	Keyboard	50	3	2024-01-02	150
4	Laptop	1200	1	2024-01-03	1200

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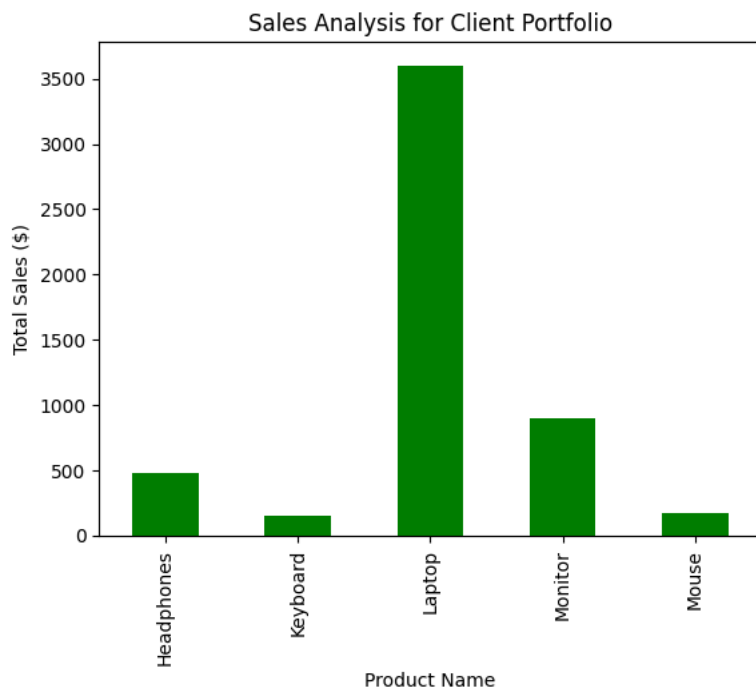
import matplotlib.pyplot as plt

product_sales = df_sales.groupby('Product')['Total_Price'].sum()

product_sales.plot(kind='bar', color='green')

plt.title('Sales Analysis for Client Portfolio')
plt.xlabel('Product Name')
plt.ylabel('Total Sales ($)')
plt.show()

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plt.figure(figsize=(8,8))
product_sales.plot(kind='pie', autopct='%1.1f%%', startangle=140, shadow=True)
plt.title('Percentage of Total Revenue per Product')
plt.ylabel(''),
plt.show()

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Percentage of Total Revenue per Product

