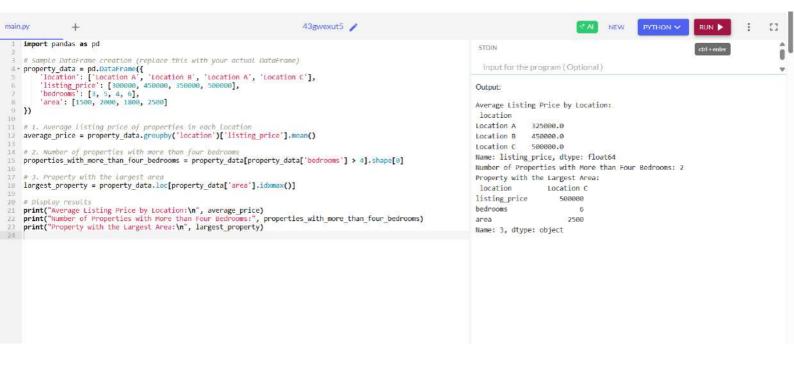




```
main.py
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                                                                                                                                                                                                        PYTHON V RUN
                                                                                                                                                                                     AI NEW
     import pandas as pd
from datetime import datetime, timedelta
                                                                                                                                                    STDIN
  Input for the program (Optional)
                                                                                                                                                    Output:
 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27
                                                                                                                                                    Series([], Name: count, dtype: int64)
     }
     # Create DataFrame
df = pd.DataFrame(data)
df['sale_date'] = pd.to_datetime(df['sale_date'])
     # Define the date range for the past month
end_date = datetime.now()
start_date = end_date - timedelta(days=30)
     # Filter data for the past month
filtered_sales = df[(df['sale_date'] >= start_date) & (df['sale_date'] <= end_date)]</pre>
     # Count sales per product and get top 5
top_products = filtered_sales['product_name'].value_counts().head(5)
     print(top_products)
```



```
import matplotlib.pyplot as plt
     months = ['Jan', 'Feb', 'Mar', 'Apr', 'May', 'Jun', 'Jul', 'Aug', 'Sep', 'Oct', 'Nov', 'Dec'] sales = [2500, 2700, 3000, 2800, 3500, 4000, 4200, 3900, 3700, 3600, 3800, 4100]
     plt.figure(figsize=(10, 5))
plt.plot(months, sales, marker='o', color='green', linestyle='-', linewidth=2)
plt.title('Monthly Sales - Line Plot')
plt.xlabel('Month')
plt.ylabel('Sales')
     plt.grid(True)
plt.tight layout()
plt.show()
     plt.figure(figsize=(10, 5))
plt.bar(months, sales, color='orange', edgecolor='black')
plt.title('Monthly Sales - Bar Plot')'
plt.xlabel('Month')
plt.ylabel('Sales')
plt.grid(axis='y', linestyle='--')
plt.tight_layout()
plt.show()
ich Rain in press . Aufre a Battle . für zur zode
```



frields upds completions.

