ABHAY ISAL

Prn no. 20221070082

F1 519

## **ASSIGNMENT 5**

INPUT:

```
import matplotlib.pyplot as plt
import seaborn as sns
import pandas as pd
data = {
rice', 'Wheat', 'Corn', 'Sooji', 'Brown rice', 'Wheat',
Bengol', 'UP', 'Maharashtra', 'Telangana', 'West Bengol'],
    'Year': [2023] * 27,
2000000, 2500000, 3000000, 3500000, 4000000, 4500000,
4000000, 4500000, 3000000, 3500000, 4000000, 4500000,
              1000000, 3500000, 4000000]
df = pd.DataFrame(data)
sns.set(style="darkgrid")
```

```
plt.subplot(2, 3, 1)
sns.countplot(data=df, x='GrainName')
plt.title('Count of Grains')
plt.xlabel('Grain Name')
plt.ylabel('Count')
# Plot 2: Sales by State
plt.subplot(2, 3, 2)
sns.barplot(data=df, x='State', y='Sales')
plt.title('Sales by State')
plt.xlabel('State')
plt.ylabel('Sales')
# Plot 3: Sales by City
plt.subplot(2, 3, 3)
sns.barplot(data=df, x='City', y='Sales')
plt.title('Sales by City')
plt.xlabel('City')
plt.ylabel('Sales')
plt.xticks(rotation=45)
# Plot 4: Sales by Month
plt.subplot(2, 3, 4)
sns.lineplot(data=df, x='Months', y='Sales')
plt.title('Sales by Month')
plt.xlabel('Month')
plt.ylabel('Sales')
# Plot 5: Sales by Year
plt.subplot(2, 3, 5)
sns.lineplot(data=df, x='Year', y='Sales')
plt.title('Sales by Year')
plt.xlabel('Year')
plt.ylabel('Sales')
# Plot 6: Sales by GrainName and Month
plt.subplot(2, 3, 6)
sns.boxplot(data=df, x='GrainName', y='Sales', hue='Months')
plt.title('Sales by Grain and Month')
plt.xlabel('Grain Name')
plt.ylabel('Sales')
plt.legend(title='Month', loc='upper right')
plt.tight layout()
```

## OUTPUT:

