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Roll no -164

Division-A4

```
import pandas as pd
import matplotlib.pyplot as plt

# Sample data
data = {
    'Month': ['Jan', 'Feb', 'Mar', 'Apr', 'May', 'Jun'],
    'Income': [5000, 6000, 5500, 7000, 6500, 7500],
    'Expenses': [2500, 3000, 2800, 3500, 3200, 4000]
}

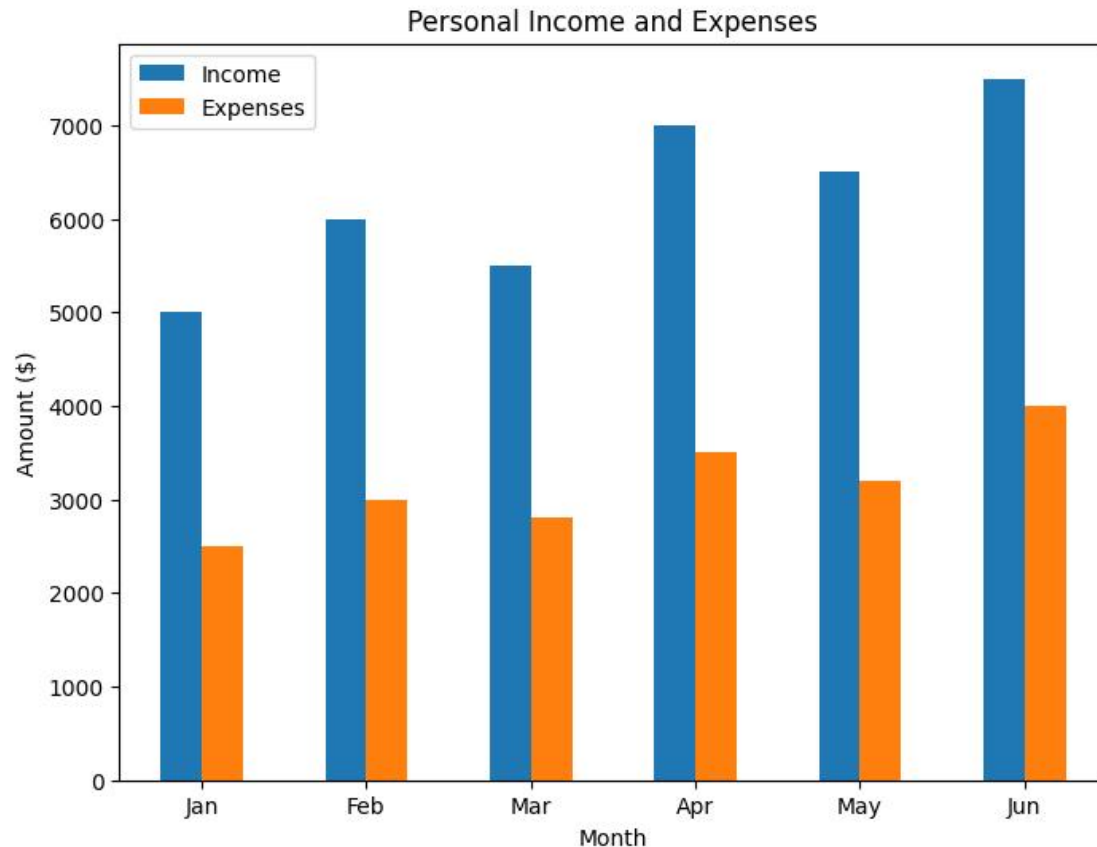
# Create a DataFrame
df = pd.DataFrame(data)

# Set the 'Month' column as the index
df.set_index('Month', inplace=True)

# Plot the income and expenses
df.plot(kind='bar', figsize=(8, 6))

# Customize the plot
plt.title('Personal Income and Expenses')
plt.xlabel('Month')
plt.ylabel('Amount ($)')
plt.xticks(rotation=0)
plt.legend(['Income', 'Expenses'])

# Display the plot
plt.show()
```



```
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt

# Sample data
data = {
    'Month': ['Jan', 'Feb', 'Mar', 'Apr', 'May', 'Jun'],
    'Income': [5000, 6000, 5500, 7000, 6500, 7500],
    'Expenses': [2500, 3000, 2800, 3500, 3200, 4000]
}

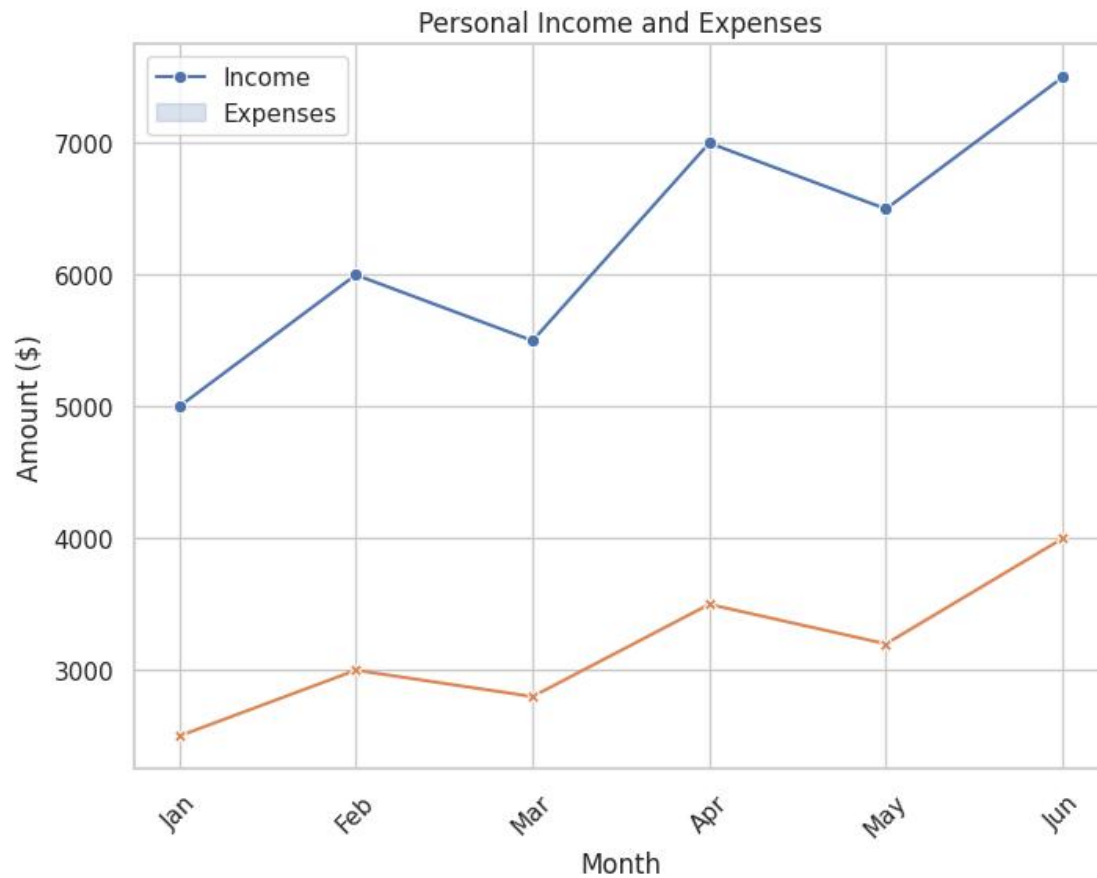
# Create a DataFrame
df = pd.DataFrame(data)

# Set the 'Month' column as the index
df.set_index('Month', inplace=True)

# Plot the income and expenses
sns.set(style='whitegrid')
plt.figure(figsize=(8, 6))
sns.lineplot(data=df, markers=True, dashes=False)
plt.title('Personal Income and Expenses')
plt.xlabel('Month')
```

```
plt.ylabel('Amount ($)')
plt.legend(['Income', 'Expenses'])
plt.xticks(rotation=45)
```

```
# Display the plot
plt.show()
```



```
import pandas as pd
import matplotlib.pyplot as plt

# Sample data
data = {
    'Month': ['Jan', 'Feb', 'Mar', 'Apr', 'May', 'Jun'],
    'Income': [5000, 6000, 5500, 7000, 6500, 7500],
    'Expenses': [2500, 3000, 2800, 3500, 3200, 4000]
}

# Create a DataFrame
df = pd.DataFrame(data)

# Set the 'Month' column as the index
df.set_index('Month', inplace=True)
```

```
# Plot the income and expenses
plt.figure(figsize=(8, 6))
plt.plot(df.index, df['Income'], marker='o', label='Income')
plt.plot(df.index, df['Expenses'], marker='o', label='Expenses')

# Customize the plot
plt.title('Personal Income and Expenses')
plt.xlabel('Month')
plt.ylabel('Amount ($)')
plt.xticks(rotation=45)
plt.legend()

# Display the plot
plt.show()
```

