EXPERINMENT-11

11. **Scenario :** You are a data scientist working for a company that sells products online. You have been tasked with creating a simple plot to show the sales of a product over time.
Question:
1. Write code to create a simple line plot in Python using Matplotlib to predict sales happened in a month?
2. Write code to create a scatter plot in Python using Matplotlib to predict sales happened in a month?
3. Develop a Python program to create a bar plot of the monthly sales data.

Code:

```python
import matplotlib.pyplot as plt
months = ["Jan","Feb","Mar","Apr","May","Jun"]
sales = [120,150,170,160,180,200]
plt.figure(figsize=(12,8))
plt.subplot(3,1,1)
plt.plot(months, sales, marker='o')
plt.title("Monthly Sales - Line Plot")
plt.xlabel("Month")
plt.ylabel("Sales")
plt.grid(True)
plt.subplot(3,1,2)
plt.scatter(months, sales)
plt.title("Monthly Sales - Scatter Plot")
plt.xlabel("Month")
plt.ylabel("Sales")
plt.grid(True)
plt.subplot(3,1,3)
plt.bar(months, sales)
plt.title("Monthly Sales - Bar Plot")
plt.xlabel("Month")
plt.ylabel("Sales")
plt.grid(True)
plt.tight_layout()
plt.show()
```