7/2/25, 1:03 AM Task 7

```
In [1]: import sqlite3
        # Connect to SQLite database (creates file if it doesn't exist)
        conn = sqlite3.connect("sales data.db")
        cursor = conn.cursor()
        # Create table
        cursor.execute('''
        CREATE TABLE IF NOT EXISTS sales (
            id INTEGER PRIMARY KEY AUTOINCREMENT,
            product TEXT,
            quantity INTEGER,
            price REAL
        ''')
        # Insert sample data
        sample data = [
             ("Laptop", 5, 70000),
             ("Laptop", 2, 70000),
             ("Headphones", 10, 1500),
             ("Mouse", 15, 500),
             ("Keyboard", 8, 1200),
             ("Monitor", 3, 15000)
        1
        cursor.executemany("INSERT INTO sales (product, quantity, price) VALUES (?, ?, ?)",
        conn.commit()
        conn.close()
```

```
In [2]: import sqlite3
        import pandas as pd
        import matplotlib.pyplot as plt
        # Connect to database
        conn = sqlite3.connect("sales_data.db")
        # SQL Query
        query = """
        SELECT product,
                SUM(quantity) AS total_quantity,
                SUM(quantity * price) AS revenue
        FROM sales
        GROUP BY product
        0.000
        # Load into pandas DataFrame
        df = pd.read_sql_query(query, conn)
        # Display output
        print("Sales Summary:\n", df)
        # Bar chart
```

7/2/25, 1:03 AM Task 7

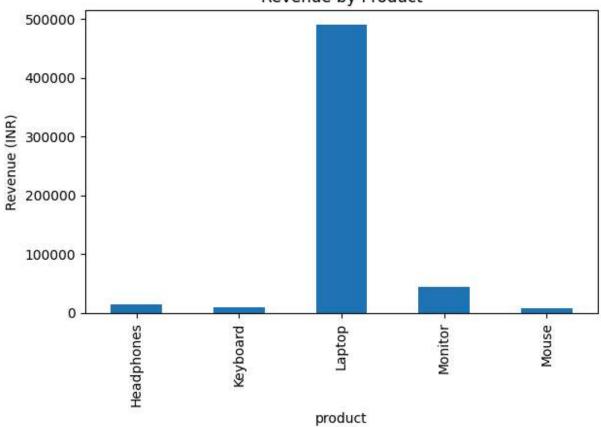
```
df.plot(kind='bar', x='product', y='revenue', legend=False)
plt.title("Revenue by Product")
plt.ylabel("Revenue (INR)")
plt.tight_layout()
plt.savefig("sales_chart.png") # Saves the chart
plt.show()

conn.close()
```

Sales Summary:

	product	total_quantity	revenue
0	Headphones	10	15000.0
1	Keyboard	8	9600.0
2	Laptop	7	490000.0
3	Monitor	3	45000.0
4	Mouse	15	7500.0

Revenue by Product



In []: