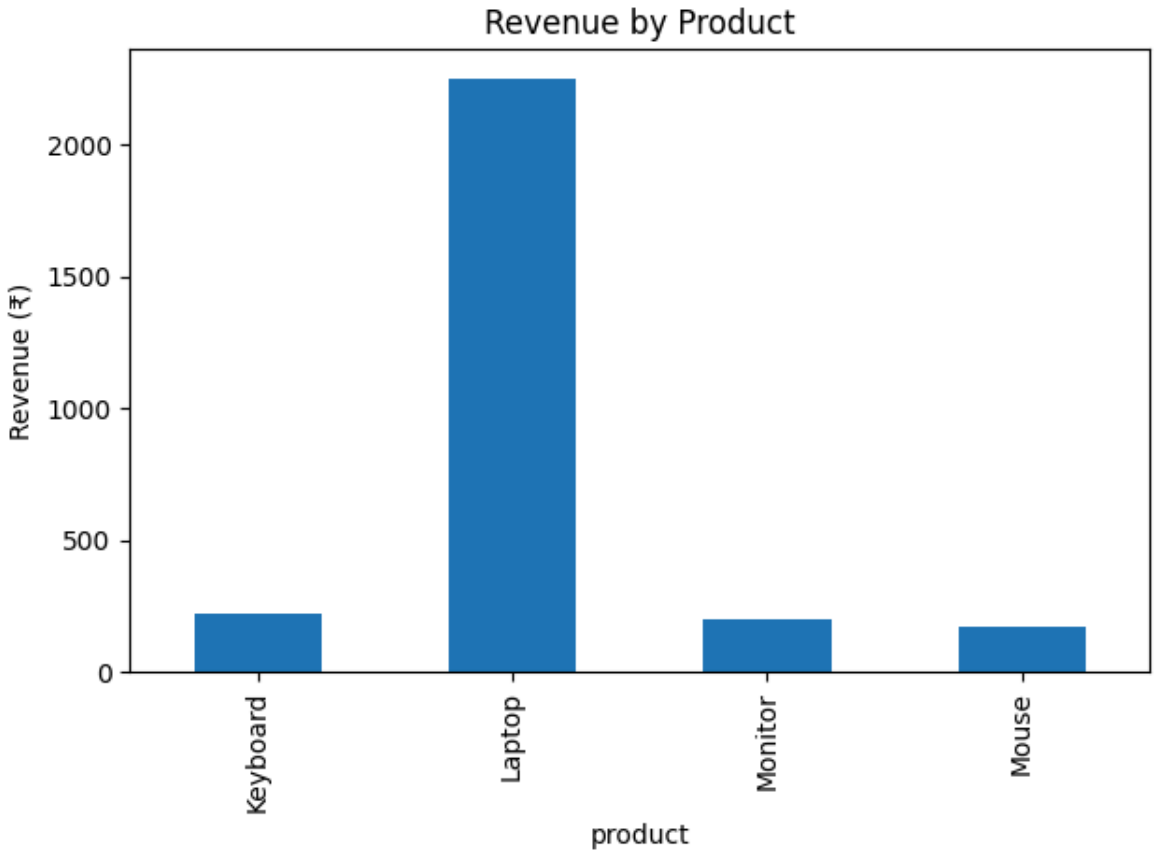
In [1]:

```
# 📦 Import Libraries
import sqlite3
import pandas as pd
import matplotlib.pyplot as plt

# 🗃️ Connect to SQLite Database
conn = sqlite3.connect("sales_data.db")

# 🛠️ Create Table and Insert Sample Data (Run once)
cursor = conn.cursor()
cursor.execute("""
CREATE TABLE IF NOT EXISTS sales (
    order_id INTEGER PRIMARY KEY,
    product TEXT,
    quantity INTEGER,
    price REAL
)
""")

sample_data = [
    (1, 'Laptop', 2, 750.00),
    (2, 'Mouse', 5, 25.00),
    (3, 'Keyboard', 3, 45.00),
    (4, 'Monitor', 1, 200.00),
    (5, 'Mouse', 2, 25.00),
    (6, 'Laptop', 1, 750.00),
    (7, 'Keyboard', 2, 45.00)
]

cursor.executemany("INSERT INTO sales VALUES (?, ?, ?, ?)", sample_data)
conn.commit()

# 📊 Run SQL Query
query = """
SELECT
    product,
    SUM(quantity) AS total_qty,
    SUM(quantity * price) AS revenue
FROM sales
GROUP BY product
"""

df = pd.read_sql_query(query, conn)

# 🖨️ Display Results
print("Sales Summary:\n")
print(df)

# 📈 Plot Bar Chart
df.plot(kind='bar', x='product', y='revenue', title='Revenue by Product', legend
plt.ylabel('Revenue (₹)')
plt.tight_layout()
plt.savefig("sales_chart.png")
plt.show()

# 🔚 Close Connection
conn.close()
```

```
Sales Summary:

    product  total_qty  revenue
0  Keyboard          5    225.0
1    Laptop          3   2250.0
2   Monitor          1    200.0
3     Mouse          7    175.0
```



In [ ]: