In [9]:

```
import sqlite3
conn = sqlite3.connect("sales_data.db")cursor = conn.cursor()
cursor.execute('''                CREATE TABLE IF NOT EXISTS
sales_data(                id INTEGER PRIMARY KEY,                date
TEXT,                product TEXT,                quantity INTEGER,
price REAL                )                ''')
conn.commit()
```

In [10]:

```
sample_data = [
    ('2025-01-01','Computer',3,909.99),
    ('2025-02-01','Laptop',4,499.99),
    ('2024-08-03','CPU',3,299.89),
    ('2024-06-02','Keyboard',1,899.99),
    ('2025-03-05','Mouse',5,49.99),
    ('2025-03-10','Monitor',2,199.99),
    ('2025-04-15','Printer',1,149.99),
    ('2025-05-01','Tablet',6,249.99),
    ('2025-05-20','Headphones',4,79.99),
    ('2025-06-12','Webcam',3,59.99),
    ('2025-07-08','Router',2,129.99),
    ('2025-08-25','Smartphone',5,699.99),
    ('2025-09-01','Charger',8,19.99),
    ('2025-09-05','USB Drive',10,12.99),
    ('2025-09-09','External HDD',2,89.99)]

cursor.executemany('''                    INSERT INTO sales_data(date,
product, quantity, price)                    VALUES (?, ?, ?, ?)
''', sample_data)
conn.commit()
```

In [11]:

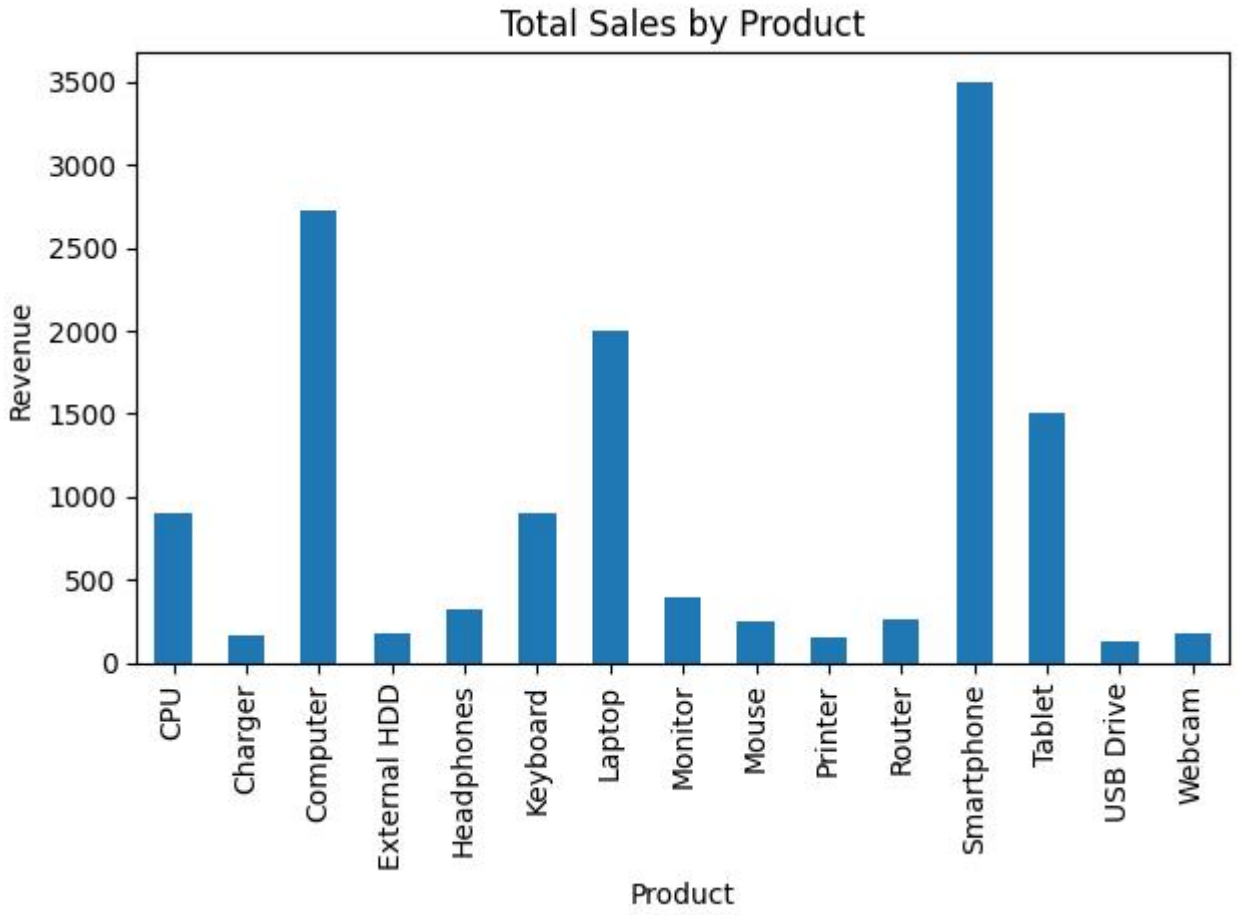
```
import pandas as pd query = "SELECT * FROM sales_data WHERE
quantity>2;"df=pd.read_sql(query,conn)print(df)
```

	id	date	product	quantity	price
0	1	2025-01-01	Computer	3	909.99
1	2	2025-02-01	Laptop	4	499.99

2	3	2024-08-03	CPU	3	299.89
3	5	2025-03-05	Mouse	5	49.99
4	8	2025-05-01	Tablet	6	249.99
5	9	2025-05-20	Headphones	4	79.99
6	10	2025-06-12	Webcam	3	59.99
7	12	2025-08-25	Smartphone	5	699.99
8	13	2025-09-01	Charger	8	19.99
9	14	2025-09-05	USB Drive	10	12.99

In [12]:

```
summary_query = '''SELECT product,        SUM(quantity) AS total_qty,
SUM(quantity * price) AS revenueFROM sales_dataGROUP BY product'''
summary_df = pd.read_sql(summary_query, conn)
import matplotlib.pyplot as plt
summary_df.plot(kind='bar', x='product', y='revenue',
legend=False)plt.title('Total Sales by
Product')plt.xlabel('Product')plt.ylabel('Revenue')plt.tight_layout()
plt.show()
```



In [14]:

```
plt.savefig("sales_chart.png")plt.show()
```

```
<Figure size 640x480 with 0 Axes>
```

In [17]:

```
conn.close()
```