In [6]:
```
import sqlite3
conn = sqlite3.connect("sales_data.db")
cursor = conn.cursor()

cursor.execute("""

CREATE TABLE IF NOT EXISTS sales (
    id INTEGER PRIMARY KEY AUTOINCREMENT,
    product TEXT,
    quantity INTEGER,
    price REAL
    );
    """)

conn.commit()
print("Table created successfully")
```

```
Table created successfully
```

In [7]:
```
sample_data = [
    ("T-shirt", 20, 499.0),
    ("T-shirt", 15, 499.0),
    ("Hoodie", 10, 999.0),
    ("Cap",25, 199.0),
    ("Sneakers", 5, 2999.0),
    ("Sneakers", 2, 2999.0)
]
cursor.executemany("INSERT INTO sales (product, quantity, price) VALUES (?,?,?)", s
conn.commit()
```

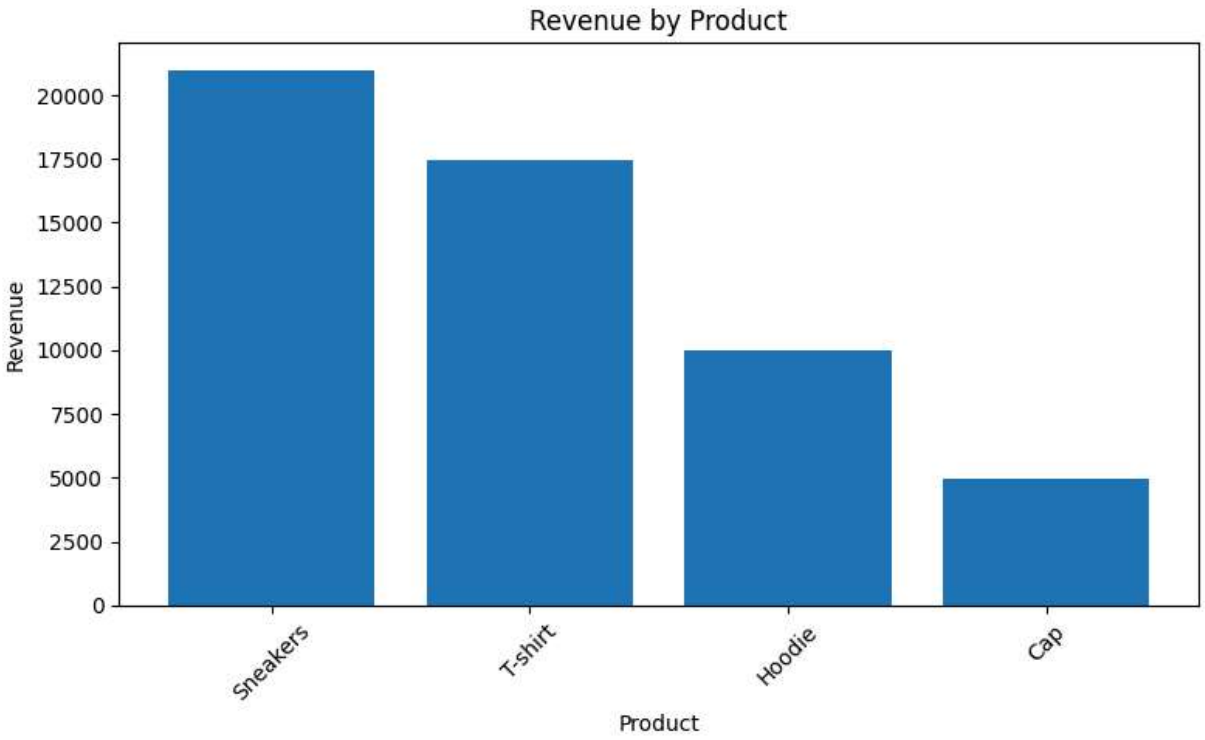
In [8]:
```
query = """
SELECT
    product,
    SUM(quantity) AS total_qty,
    SUM(quantity * price) AS revenue
FROM sales
GROUP BY product
ORDER BY revenue DESC
"""

import pandas as pd
df = pd.read_sql_query(query, conn)
print(df)
```

```
    product  total_qty  revenue
0  Sneakers          7  20993.0
1   T-shirt         35  17465.0
2    Hoodie         10   9990.0
3       Cap         25   4975.0
```

In [12]:
```
import matplotlib.pyplot as plt
plt.figure(figsize=(8,5))
plt.bar(df["product"], df["revenue"])
plt.xlabel("Product")
plt.ylabel("Revenue")
```

```
plt.title("Revenue by Product")
plt.xticks(rotation=45)
plt.tight_layout()
plt.savefig("sales_chart.png")
plt.show()
```



In [13]:
```
conn.close()
```

In [ ]:
```

```