Education – Student Grading

Objective: Evaluate students and determine Pass/Fail.

Solution:-

```
students = [
    {"name": "Ava", "marks": 78},
    {"name": "Noah", "marks": 42},
    {"name": "Olivia", "marks": 55},
]
for student in students:
    print(f"\nEvaluating {student['name']}...")
    if student["marks"] >= 50:
        print("Result: Passed")
    else:
        print("Result: Failed")
```

Production Case: Bottle Quality Control System

Objective: Automatically inspect bottles on a production line. For each bottle:

- If the weight is too low or too high → mark as "Rejected"
- If the cap is missing → mark as "Rejected"
- Otherwise → mark as "Accepted"

You need to simulate inspecting 10 bottles using a loop and conditionals.

Healthcare Case: Health Monitoring

Objective: Monitor patients' health. If heart rate or temperature is abnormal, raise an alert.

Banking – Fraud Detection

Objective: Detect potentially fraudulent transactions based on amount and location mismatch.

Logistics – Delivery Quality Check

Objective: Check packages for delivery status with damaged or non-damaged piece.