## ****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.