Problem 1: Quantity Pricing

- **Input:** quantity
- **Process:**
    - unit_price ← 3.00 if quantity ≥ 1000 else 5.00
    - extended = quantity × unit_price
    - tax = 0.07 × extended
    - total = extended + tax
- **Output:** quantity, unit_price, extended, tax, total

Problem 2: Item A/B Pricing

- **Input:** item_code, quantity
- **Process:**
    - unit_price ← 10.00 if item_code == "A" else 20.00
    - extended = quantity × unit_price
- **Output:** item_code, unit_price, extended

Problem 3: Book Order Shipping

- **Input:** books, cost_per_book
- **Process:**
    - order_total = books × cost_per_book
    - shipping ← 0 if order_total > 50.00 else 25

- **Output:** order_total, shipping

Problem 4: Appliance Warranty

- **Input:** name, cost
- **Process:**
    - warranty ← 0.10 × cost if cost > 1000 else 0.05 × cost
    - total = cost + warranty
- **Output:** name, cost, warranty, total

Problem 5: Income Tax Calculation

- **Input:** last_name, dependents, gross_income
- **Process:**
    - agi = gross_income − (dependents × 12000)
    - rate ← 0.20 if agi > 50000 else 0.10
    - tax = agi × rate
    - if tax < 0 then tax = 100
- **Output:** last_name, gross_income, dependents, agi, tax