An Expert System

- Ask a user four questions on house plants; recommend a house plant based on the answers. Note that a Yes answer to either question 2 or 3 will drive the recommendation to a plant that needs frequent watering.

1. Will the plant be placed in bright sun or shade?
2. Will the plant be placed in a humid environment?
3. Are you good at remembering to water plants?
4. Do you want a flowering plant?

Light	Needs Frequent Watering	Flowering	Plant Recommendation
Bright sun	Yes	Yes	Anthurium
Bright sun	Yes	No	Rubber Plant
Bright sun	No	Yes	Crown of Thorns
Bright sun	No	No	Jade Plant
Shade	Yes	Yes	African Violet
Shade	Yes	No	Boston Fern
Shade	No	Yes	Aloe
Shade	No	No	Peperomia

An Expert System Part 2

- **Once you've impressed the customer with your recommendation, try to make a sale!**

- **After displaying the recommended plant, ask the user how many plants he/she wants to purchase.**

- **Calculate the total bill and print a receipt (to console) like the one below.**

  - **The subtotal will be the amount of plants times the list price $12.99. (Use a constant for list price)**

  - **Calculate taxes on the subtotal. (Use a constant for the NJ Tax Rate of 7%.)**

```
Subtotal:        37.02
Taxes:            2.59
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Total:           39.61
```

  - **Offer a discount when more than two plants are bought (in a switch/case statement):**

    - **3 plants: 2% discount off the subtotal**
    - **4 plants: 5% discount off the subtotal**
    - **5 plants: No discount, but customer gets a free watering can**
    - **6 or more plants: No discount, but customer gets to pick out a free plant**

  - **Display a message (JOptionPane) that shows the bonus for the customer (see above), tells the customer to ring a bell for a salesperson (0 plants), or signals an invalid value (negative number of plants).**