Overview

We will review the following statements in this lab

- Scanner
- Variables
- System.out.print/println
- Conditional statements (if, else, elseif)

Getting Started

After starting Eclipse, create a new project called Lab 21_02. You can write the whole program in `main()` and do not need to use methods or procedures. If you are more comfortable using them then it is fine also.

Part 1: Create `CheeseShop.java`

The machine will dispense 3 types of cheese, in one-pound packages. The types of cheese and prices are as follows:

- Dalaran Sharp: $1.25 per pound
- Stormwind Brie: $10.00 per pound
- Alterac Swiss: $40.00 per pound

Your program will do the following:

- List all the cheese types available and the prices
- Asks the user how many pounds of each type of cheese to purchase
- Calculate Sub Total (price*amount of each cheese added together)
- Discount of Sub Total -
  o A $10 discount if their purchase is $50 or over
  o An additional $15 discount ($25 total) if $100 or over
- Ask the user if they would like to see a list of what they purchased
  o If yes, a list comes up showing how much of each type of cheese they bought and the cost of each cheese
  o Display only the cheese they actually bought
  o If no then no itemized information is displayed
- Display Sub Total, Discount and Total Price

Sample Output:

```
We sell 3 kinds of Cheese
Dalaran Sharp: $1.25 per pound
Stormwind Brie: $10.00 per pound
Alterac Swiss: $40.00 per pound
Enter the amount of Sharp in lbs: 1
Enter the amount of Brie in lbs: 1
Enter the amount of Swiss in lbs: 1
Display the itemized list? (1 for yes) 1
1 lbs of Sharp @ $1.25 = $1.25
1 lbs of Brie @ $10.00 = $10.0
1 lbs of Swiss @ $40.00 = $40.0
Sub Total: $51.25
-Discount: $10.0
Total    : $41.25
```

```
We sell 3 kinds of Cheese
Dalaran Sharp: $1.25 per pound
Stormwind Brie: $10.00 per pound
Alterac Swiss: $40.00 per pound
Enter the amount of Sharp in lbs: 1
Enter the amount of Brie in lbs: 2
Enter the amount of Swiss in lbs: 3
Display the itemized list? (1 for yes) 1
1 lbs of Sharp @ $1.25 = $1.25
2 lbs of Brie @ $10.00 = $20.0
3 lbs of Swiss @ $40.00 = $120.0
Sub Total: $141.25
-Discount: $25.0
Total     : $116.25

We sell 3 kinds of Cheese
Dalaran Sharp: $1.25 per pound
Stormwind Brie: $10.00 per pound
Alterac Swiss: $40.00 per pound
Enter the amount of Sharp in lbs: 1
Enter the amount of Brie in lbs: 0
Enter the amount of Swiss in lbs: 0
Display the itemized list? (1 for yes) 1
1 lbs of Sharp @ $1.25 = $1.25
Sub Total: $1.25
-Discount: $0.0
Total     : $1.25

We sell 3 kinds of Cheese
Dalaran Sharp: $1.25 per pound
Stormwind Brie: $10.00 per pound
Alterac Swiss: $40.00 per pound
Enter the amount of Sharp in lbs: 0
Enter the amount of Brie in lbs: 1
Enter the amount of Swiss in lbs: 0
Display the itemized list? (1 for yes) 1
1 lbs of Brie @ $10.00 = $10.0
Sub Total: $10.0
-Discount: $0.0
Total     : $10.0

We sell 3 kinds of Cheese
Dalaran Sharp: $1.25 per pound
Stormwind Brie: $10.00 per pound
Alterac Swiss: $40.00 per pound
Enter the amount of Sharp in lbs: 1
Enter the amount of Brie in lbs: 1
Enter the amount of Swiss in lbs: 1
Display the itemized list? (1 for yes) 0
Sub Total: $51.25
-Discount: $10.0
Total     : $41.25

We sell 3 kinds of Cheese
Dalaran Sharp: $1.25 per pound
Stormwind Brie: $10.00 per pound
Alterac Swiss: $40.00 per pound
Enter the amount of Sharp in lbs: 0
Enter the amount of Brie in lbs: 0
Enter the amount of Swiss in lbs: 0
Display the itemized list? (1 for yes) 1
```

```
Sub Total: $0.0
-Discount: $0.0
Total : $0.0
```

Part 2: (Assessment) Logic Check

1. How many variables did you use?
2. How many variable types did you use?
3. How did you decide what types each variable should be?
4. What is the difference between `print` and `println`?
5. Did you use both `print` and `println` in your program? For what purpose did you use each type of print statement.
6. What does the line `System.out.println();` do?

What to hand in

When you are done with this lab assignment, submit all your work through CatCourses.

Before you submit, make sure you have done the following:
- Verified your solution with your TA or instructor
- Include the answers to Assessment questions (1 – 6) in a Word document or text file named `Part2`
- Attach the created `CheeseShop.java` file
- Include list of collaborators in the file `Part2`