

CSE21 : Lab #2 - Cheese Shop

Overview

We will review the following statements in this lab:

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

Getting started

After starting Eclipse, create a new project called Lab 21_2. 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.

(Exercise) 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
 - for a \$10 discount if their purchase is \$50 or over
 - 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
 - If yes, a list comes up showing how much of each type of cheese they bought and the cost of each cheese
 - Display only the cheese they actually bought
 - 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: 1
Enter the amount of Brie: 1
Enter the amount of Swiss: 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: 1
Enter the amount of Brie: 2
Enter the amount of Swiss: 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: 1
Enter the amount of Brie: 0
Enter the amount of Swiss: 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: 0
Enter the amount of Brie: 1
Enter the amount of Swiss: 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: 1
Enter the amount of Brie: 1
Enter the amount of Swiss: 1
Display the itemized list? (1 for yes) 0
Sub Total: $51.25
-Discout: $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: 0
Enter the amount of Brie: 0
Enter the amount of Swiss: 0
Display the itemized list? (1 for yes) 1
Sub Total: $0.0
-Discout: $0.0

Total      : $0.0
```

(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 and for what purpose for each?
- 6) What does the line *System.out.println();* do?

What to hand in

When you are done with this lab assignment, you are ready to submit your work. Make sure you have done the following **before** you press Submit:

-  Include answers to Assessment questions
 -  Attach created CheeseShop.java
 -  List of Collaborators
-