

Project 4

Implement a Java program for the Schaper Deli. The Schaper Deli has the following menu items:

Meats:

- Hamburger \$2.00
- Ham \$1.50
- Chicken \$2.50

Bread:

- Bun \$0.50
- Wheat wrap \$0.60

Toppings:

- Sprouts \$0.35
- Lettuce \$0.30
- Tomato \$0.40
- Cheese \$0.75

Condiments:

- Mayonnaise \$0.25
- Mustard \$0.25
- Ketchup \$0.25

The Schaper Deli has been very successful and has franchises in Bethlehem, Allentown, and Emmaus.

For this project you are to create a program that allows the billing for deli items. You are required to use the Factory and Abstract Factory patterns for the design of your software. To test your software, have main create 3 sandwiches as follows:

- From the Bethlehem store: Ham with bun, cheese, lettuce, and mustard
- From the Allentown store: Chicken with wheat wrap, lettuce, tomato, and mayonnaise
- From the Emmaus store: Hamburger with bun, cheese, lettuce, tomato, ketchup, and mustard

For each of these orders, your program must display the contents of the sandwich and the cost of the sandwich.

Add all source code (.java files only) to the gitkeeper repository and push your solution to gitkeeper. You are also required to create a UML diagram for your design. The design UML can be (neatly) handwritten. The UML design diagram is due on Monday, April 16, 2018, at the beginning of class.

The details and requirements of this project may be modified before due date.