

Unit 5 Chapter 14 Assignment

Grading Information: This Program is **due** on **Date Specified**.

Comments are **REQUIRED**; flow charts and pseudocode are **NOT REQUIRED**.

Directions	Points
<p>The files must be called <LiFiUnit5Ch14.java> (driver program) LiFiPizza.java LiFiCheese.java (which extends LiFiPizza)</p> <p>The files must be called as specified above, (LiFi = Your Last Initial Your First Initial)</p> <p><i>Proper coding conventions required the first letter of the class start with a capital letter and the first letter of each additional word start with a capital letter.</i></p> <p>Only submit the .java files needed to make the program run. Do not submit the .class files or any other files.</p>	5%
Style Components <p>Include properly formatted prologue, comments, indenting, and other style elements as shown in Chapter 2 starting page 64 and Appendix 5 page 881-892.</p>	5%
Topics covered in chapter <p>Topics with * are covered in this assignment. Ensure you use every item listed below in your completed assignment.</p> <p>*Object class *equals method toString method *Polymorphism Abstract Interfaces Protected access modifier</p>	
Basic Requirements <p>Write a super basic Pizza ordering system using Polymorphism. The setCrust method varies based on which type of Pizza is instantiated.</p>	
LiFiUnit5Ch14 <ul style="list-style-type: none">Get input for Cheese or Meat pizza.	30%

- Declare a single pizza to be used for both Cheese and Meat
- If a Meat pizza is selected
 - instantiate your pizza as a LiFiPizza pizza with zero arguments
 - setType to Meat via the constructor
- If a Cheese pizza is selected,
 - Instantiate your pizza as a LiFiCheese pizza with zero arguments.
- Output of your order varies based on Cheese or Meat (See Example)

LiFiPizza.java

- Default constructor should set pizzaType to Meat and cost to \$5
- setCrust()
 - Call setCrust and allow selection of Thin or Thick crust
- setIngredients()
 - and allow for only 1 ingredient
- setCost()
 - add \$2 to the initial cost which is \$5
- Include accessor methods as needed.
- Ensure all instance variables are private

30%

LiFiCheese.java

- Set the type to cheese via the constructor body.
- setCrust() – (notice this is different from LiFiPizza setCurst method)
 - Automatically set it to “Thin” crust, no option to change, sorry.

30%

NOTE: Complete your activity and submit it by clicking “Submit Assignment”

Total Percentage

100%

Sample

Your output will vary based on Input.

```
What type of pizza would you like (Cheese or Meat): Cheese
Your ordered:
Cheese pizza
Thin crust
Total cost of $5.00
```

```
What type of pizza would you like (Cheese or Meat): Meat
Thin or Thick Crust: Thick
What ingredient, sorry, only 1: Sausage

Your ordered:
Meat pizza
Sausage (+$2.00)
Thick crust
Total cost of $7.00
```

```
What type of pizza would you like (Cheese or Meat): Meat
Thin or Thick Crust: Thin
What ingredient, sorry, only 1: Pepperoni

Your ordered:
Meat pizza
Pepperoni (+$2.00)
Thin crust
Total cost of $7.00
```