

## Revision Thu:

*Please make a backup of your previous files in case your revision modifications do not work. You will upload the modified versions of the files.*

FoodBasket is a health-conscious company wanting to be aware of the dietary conditions of its customers. As a new strategy, the system lets its users define the ingredient they are allergic to, and if the users order food with their allergic content, FoodBasket executes a warning. For this functionality, please make the following changes to your code:

- 1) Declare a *String* called "allergicIngredient" in the *User* class, and add its accessor and mutator methods.
- 2) Declare a reference to a *Food* instance in the *User* class called "allergicFood", and add its accessor and mutator methods. The mutator method (setter) accepts a *Food* object but has the following condition to set the instance: the Food object in the parameter list should contain the allergicIngredient in its ingredients. (Hint: you can use `contains(String ingredient)` for this purpose.) If the food contains the allergicIngredient, then the mutator sets the allergicFood and returns true. Otherwise, the mutator does not set the allergicFood and returns false.
- 3) Add a new function to the *Order* class called "cancelOrder()". This function sets the totalPrice and portion to 0.0, and ID to -1.
- 7) Modify addNewOrder method of the *User* class so that it checks if the orderedFood of the order is the user's allergicFood using the `equals()` function of the *Food* class. If the food is the allergicFood, then the system asks the user if she/he wants to continue with the order. If the user chooses not to continue, this function cancels the order by calling `cancelOrder()`.
- 8) Make additional changes in your *Order*, *User*, and *Food* classes, if necessary.
- 9) The main method is given in the FoodBasket\_revisionTHU.java file. Please run this class for demonstration.

Here is an example test snippet and output of this functionality:

```
User user2 = new User("John Doe", 60);
Food food1 = new Food("Manti", "flour, meat or veggies, salt", 50, "main", 200);
Food food2 = new Food("Ezogelin Soup", "red lentils", 187, "soup", 20);

Order order5 = new Order(1, food2);
user2.setAllergicIngredient("lentils");

user2.setAllergicFood(food1);

user2.setAllergicFood(food2);
user2.addNewOrder(order5);

order5.checkout();
System.out.println(order5);
*****
//setAllergicFood(food1):
Manti doesn't contain lentils, John Doe is not allergic to Manti.

Adding a new order of Ezogelin Soup to John Doe... //addNewOrder(order5):
John Doe is allergic to Ezogelin Soup! Does John Doe want to continue ordering (y/n) ? y
Proceeding with the order...and CALLING THE AMBULANCE!

Details for Order 0: //print-out
    Ezogelin Soup(x 1.0)
    TOTAL = 20.0

// Alternatively:
John Doe is allergic to Ezogelin Soup! Does John Doe want to continue ordering (y/n) ? n
Order 0 is canceled.
```