Exerciseo3: Object, Class

Instruction

- Create a project "Activity1_2017_{ID}" to implement the program. The implementation details are on the next page.
- Create Package "logic" and download template class "FoodOrder.java" into this package.
- Implement the program as per instruction in this document
- Run the program to check the result. Edit your code as needed until there is no failure. Then, **call TA to check the result**.
- After finish the program, export your project into a jar file with source codes called "Activity1_2017_{ID}.jar". (This is simulating submission)

Object, Class

1 Problem Statement: Uncle Boonmee's food stall

Uncle Boonmee is running a food stall selling Hainanese chicken rice. He wants a chatbot that would help him taking food order and calculating the price for each order. Complete the chatbot program by filling in the code.

Figure 1 shows an example chat log from our chatbot:

```
Hi, Welcome to Kao-Mun-Gai food stall!
We only sell Hainanese chicken rice
Would you like your meal with chicken? (Yes/No)
Yes
Would you like your meal with vegetable? (Yes/No)
Yes
Extra chicken? (Yes/No)
No
Extra Rice? (Yes/No)
No
That would be 40 baht. Thanks!
Hainanese chicken rice
Chicken:true
Vegetable:true
Extra Chicken:false
Extra Rice:false
```

Figure 1: An expected output from the chatbot.

2 Implementation Detail

2.1 Class: FoodOrder

You must create a class called "FoodOrder" with properties as follows:

2.1.1 Field

•	private String description	- description of the food
•	private int price	- Price in baht
•	private boolean hasChicken	- Does the customer want to eat chicken?
•	private boolean hasVegetable	- Does the customer want to eat vegetable?
•	private boolean hasExtraChicken	- Does the customer want extra chicken?
•	private boolean hasExtraRice	- Does the customer want extra rice?

2.1.2 Constructer

 Every food order must be initialized using this constructor description = "Hainanese Chicken rice" hasChicken = true hasVegetable=true hasExtraChicken=false hasExtraRice=false
hasExtraChicken=falsehasExtraRice=false

2.1.3 Method

getdescription	- get the description of the food
• getPrice	- get the price
calculatePrice	Calculate the price of each meal (private class)
	- Initial Price: 40 baht
	- No Chicken: 10 baht cheaper
	- Extra Chicken: 10 more baht
	- Extra Rice: 5 more baht
 setHasChicken 	-Set hasChicken to true or false according to customer's
	need
	-Recalculate the price
 setHasVegetable 	-Set hasVegetable to true or false according to customer's
	need
 setHasExtraChicken 	-Set hasExtraChicken to true or false according to
	customer's need
	-Recalculate the price
 setHasExtraRice 	-Set hasExtraRice to true or false according to customer's
	need
	-Recalculate the price
• toString	Override this method to print out FoodOrder object as
	shown in Figure 1
• equals	Override this method to check if two food orders have the
	same price.

Check List

- 1. Create the FoodOrder class as mentioned above and make sure that the program can be compiled.
- 2. Check the cost of the food when the user inputs are as follows:
 - a. Yes, Yes, No, No [This should be 40 baht]
 - b. No, No, No, No [This should be 30 baht]
 - c. Yes, Yes, Yes, Yes [This should be 55 baht]
- 3. In the main method, Uncomment the lines under "Uncomment the following lines to test equals method" to check if equals method is working correctly. [The result should be "true"]