

PROG2013 Object-oriented Programming

Individual Project

Case study:

Consider an online pizza ordering system that used by customer.

The customer can order several pizzas from the ordering system. The customer needs to provide his/her contact number, name and shipping address of an order. Customer can custom made the pizza that ordered by them. For each pizza, customer can select the toppings which include pepperoni, sausage and mushroom to be present on the pizza or not. Customer also will choose the size of the pizza. The size of pizza will be categorized in three different sizes which are small, medium and large.

The system will calculate the price of the order based on the pizza order by them. A small pizza costs RM8, a medium pizza costs RM 10 and a large pizza costs RM 12. Each topping adds RM 2 to the pizza.

Each customer can made more than one pizza order. Each customer can use different shipping address for different order they made.

Questions:

1. Draw class diagram for the program.
2. Implement the class diagram in Java class definition.
3. Write a pizza ordering program using the java classes above. The pizza ordering system should allow customer to place order and show the price for their order. (Note: you need to design the program (using GUI or Console or Dialog Box as user interface) yourself using the information provided in the question)