Max Time: 2.5 hour Max Marks: 50

Implement following scenario in Java SE.

Scenario: A Customer wants to order some items in a Restaurant. He walked in to the restaurant and occupied one of table. Then the Server of the restaurant came and handed over him the Menu card. Then the customer selected couple of items from the menu, and given order to the server. Server went to the kitchen and passed the order given by the customer to the Cook. The cook had verified the items for the order and prepared the food and handed over the food to the server. Then server took the food to the customer and served him.

Business Rules

1. Create at least 5 items with itemCode, itemName and price, and let customer select his items from those 5 items only.
2. Whatever items ordered by the customer, assign them only to the Cook in the kitchen.
3. Let Cook prepare all the items whatever customer ordered. By the time cook prepares the food, then Server and Customer should be idle. Set cook can prepare the items with in a 15 minutes.
4. Generate a used defined exception “CannotPlaceOrder” when the customer ordered item is not available with the Cook.
5. Once the food is served to the customer, then generate total bill supposed to pay by the customer depending on the number of items ordered.

When you run the above code, output should be like following

ItemCode ItemName Unit price Quantity Price

-----------------------------------------------------------------------------------------------------------

A001 Veg Roll 50 2 100

A005 Chicken Biryani 250 1 250

A008 Cock Pet bottle 45 1 45

A002 Mineral Water 30 2 60

A003 Chilli Chicken 300 1 300

------------------------------------------------------------------------------------------------------------

Total Payable amount 755

------------------------------------------------------------------------------------------------------------

Note: Naming conventions and coding conventions must be followed. Package structure must be followed. Must use all the OOPS concepts.