

Part #1: Assignment

Estimated time:

Concept:

Objective: At the end of assignments, participants will be able to implement Basic Concepts of java

The Debonair is a chain of leading restaurant having its outlet all across the globe. The Restaurant offers following services to the customers:

- Offline Order Processing
- Corporate Discounts
- Gifts & Offers for Regular Customer.

The restaurant has kiosk in all its outlets with the help of which a client can give its order. Also the same application is being used by the attendant who handles the request of the customer on the terminal.

The kiosk provides the following features:

- Take Order
- Order Status
- Show Menu
- Show Corporate Offers
- View offers & gifts for regular customers.

To design the Restaurant system, you need to perform the following tasks:

Q1.

WAP which has a class Restaurant with following behaviour:

- showMenu()
- takeOrder()
- checkStatus(int orderId)
- showRegCustomerOffer(int custId)
- showCorpCustomerOffer(int corpId)

Design a menu driven interface which will display the various functionality being offered by the restaurant. On the click of correct option the concerned functionality will be invoked.

Q2.

Implement the first functionality showMenu as follows:

Design an Item class having itemId, itemName, itemPrepTime as attributes. Also create getter/setter, constructors if required.

Design a Menu class comprises the itemMenu array, which is a static array of Item type. Initialize the array with some sample items offered by the restaurant using static block.

The showMenu behavior of the Restaurant class will display the items offered using itemMenu of Menu class.

Q3.

Implement the second functionality takeOrder as follows:

Design an Order class having attributes as orderId, orderDate, orderCart[] of Item type. Create getter/setter, constructors if required. orderId should be autogenerated. orderDate should be the current date.

The takeOrder behavior of the Restaurant class will take the order from the user which will be stored as an object of Order class in the array named as orderList. The orderList is a static array of order type which is an attribute of Restaurant class.

Q4.

Implement the third functionality checkStatus as follows:

It will check the orderList on the basis of the order id provider by the user whether order is stored in the orderList or not.