

Assignment 02

Q1. Display food menu to user. User will select items from menu along with the quantity. (eg 1. Dosa 2. Samosa 3. Idli ... 10 . Generate Bill) Assign fixed prices to food items(hard code the prices) When user enters 'Generate Bill' option , display total bill & exit.

(No need of any class, and no need to display the food details. Only display the total of orderd food)

Q2. Create a class called Invoice that a hardware store might use to represent an invoice for an item sold at the store. An Invoice should include four pieces of information as fields—a part number (type String), a part description (type String), a quantity of the item being purchased (type int) and a price per item (double). Your class should have a constructor that initializes the four instance variables. Provide a set and a get method for each instance variable. calculates the invoice amount (i.e. multiplies the quantity by the price per item), then returns the amount as a double value.

If the quantity is not positive, it should be set to 0.

If the price per item is not positive, it should be set to 0.0.

Write a test application named InvoiceTest that demonstrate class Invoice's capabilities.

Q3. Create an application that calculates your daily driving cost, so that you can estimate how much money could be saved by car pooling, which also has other advantages such as reducing carbon emissions and reducing traffic congestion. The application should input the following information and display the user's cost per day of driving to work:

- a) Total miles driven per day.
- b) Cost per gallon of gasoline.
- c) Average miles per gallon.
- d) Parking fees per day.
- e) Tolls per day.