# **Assignment 11 -**

# **Breakfast Billing System**

Write a program to help a local restaurant automate its breakfast billing system. The program should do the following:

a. Show the customer the different breakfast items offered by the restaurant.

b. Allow the customer to select more than one item from the menu as well as multiple items of a particular type.

c. Calculate and print the bill.

Assume that the restaurant offers the following breakfast items (the price of each item is shown to the right of the item):

Plain Egg $1.45

Bacon and Egg $2.45

Muffin $0.99

French Toast $1.99

Fruit Basket $2.49

Cereal $0.69

Coffee $0.50

Tea $0.75

Define a struct, MenuItemType, with two components: menuItem of type string and menuPrice of type double. Use a vector, menuList, of the struct MenuItemType.

Your program must contain at least the following functions:

* getData: This function loads the data from a file (“menu.txt”) into the vector menuList. Your program should still work with a different “menu.txt” file than the one provided. For example if more or less items are added to the menu, or there is a price change.
* showMenu: This function shows the different items offered by the restaurant and tells the user how to select the items.
* printCheck: This function calculates and prints the check. (Note that the billing amount should include a 5% tax.)

**A sample printCheck output is:**

Welcome to Johnny's Restaurant

1 Bacon and Egg $2.45

2 Muffin $1.98

1 Coffee $0.50

Tax $0.25

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Amount Due $5.18

Format your output with two decimal places. The name of each item in the output must be left justified.

**What to Submit:**

**Submission Instructions**