## CS5008 HomeWork 3

## Question 1

Define a struct, menuItemType, with two components: menuItem of type string and menuPrice of type double.

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.
- 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):

\$1.45
\$2.45
\$0.99
\$1.99
\$2.49
\$0.69
\$0.50
\$0.75

Use an array, menuList, of the struct menuItemType,

## Your program must contain the following functions:

- Function getData: This function loads the data into the array menuList.
- Function showMenu: This function shows the different items offered by the restaurant and tells the user how to select the items.
- Function printCheck: This function calculates and prints the check.
   (Note that the billing amount should include a 5% tax.)
   A sample output is:

Welcome to Johnny's Restaurant
Bacon and Egg \$2.45
Muffin \$0.99
Coffee \$0.50
Tax \$0.20
Amount Due \$4.14

Format your output with two decimal places. The name of each item in the output must be left justified. You may assume that the user selects only one item of a particular type.

## Redo the above exercise so that the customer can select multiple items of a particular

type. A sample output in this case is:

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