

Business Applications Programming

Assignment 1 (15%)

Please complete the following exercise and submit your solution in the online dropbox provided by **Friday 23rd October @ 5 pm** at the latest. Your submission document (word format) should follow the general guidelines as detailed in the Assignment folder. Note only one submission is accepted per assignment.

Simple Table Service App

Create a well-designed application that allows “*Sult Bar & Restaurant*” staff to take table orders from bar customers.

When the form loads (or has been cleared for next user), the server enters their name and the table number that they are serving. On pressing the **Start** button, the server is brought to an order screen, where they can enter the number of each type of pizzas that the customers want to order.

When the **Order** button is pressed, the application displays the total number of Pizza’s and receipts for that order along with the server’s name. Note a surcharge of €2.49 is to be applied to the total of each table order as a service charge.

If the user presses the **Summary** button, the application displays the total number of transactions, total pizzas sold, total company receipts and the average transaction value (if at least one transaction has taken place prior to being pressed). If the **Clear** button is pressed at any time, the form is reset for the next user. On pressing the **Exit** button, the form closes.

Ensure that you handle any exceptions that could occur in your project and ensure that the user is helped recover from any error of this type. Remember to use good naming conventions for controls & variable names; include remarks at the top of each event handler and at the top of the class. Include ToolTips & Access Keys as appropriate.

Your application is **required** to follow the design and format of the form in the screen shots on the following 2 pages (full size screen shots available in assignment Channel in each Teams group).

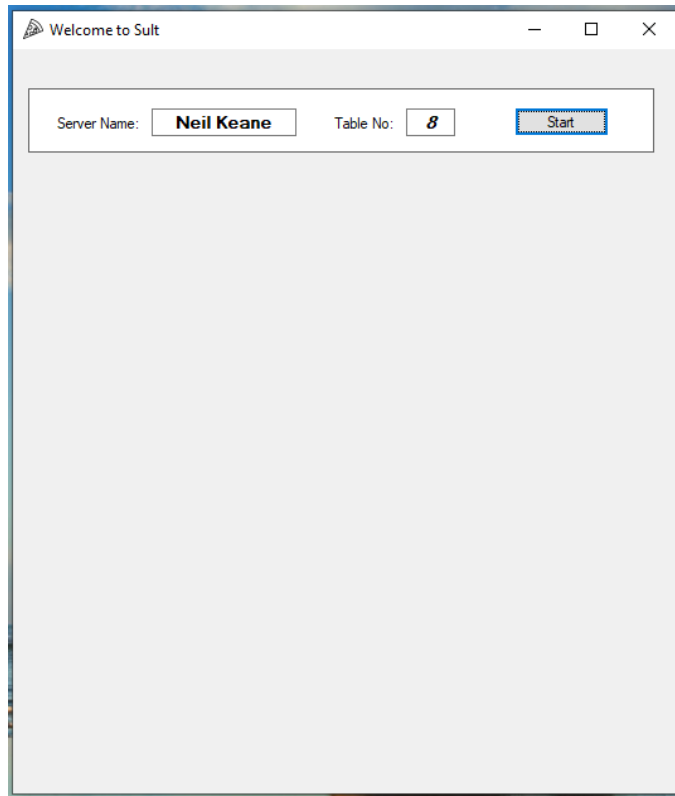


Fig 1: On Form Load || Clear Button Pressed, & User Data Entered

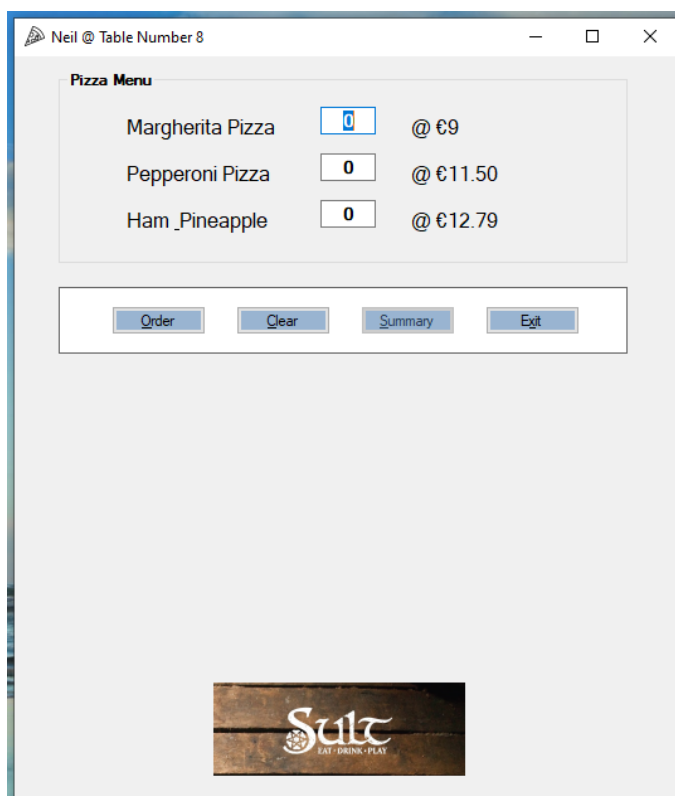


Fig 2: Form after Start Button Pressed

Neil Keane @ Table Number 8

Pizza Menu

Margherita Pizza	5	@ €9
Pepperoni Pizza	5	@ €11.50
Ham_Pineapple	5	@ €12.79

Order Clear Summary Exit

Press to clear form for next user

Table Order Summary Data

Server Name	Neil Keane
Total Number Pizza's	15
Total Table Receipts	€171.43

Sult
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Fig 3: After Order Button Clicked

Sult Company Summary Data

Order Clear Summary Exit

Press to Exit Application

Company Summary Data

Total Company Transactions	2
Total Number Pizza's	20
Total Company Receipts	€221.41
Avg Transaction Value	€110.71

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Fig 4: After Company Summary Button Clicked