

WEEK 7 LAB ASSESSMENT

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Code

```
1 Public Class BillApp
2     'Load App
3     Private Sub BillApp_Load(sender As Object, e As EventArgs) Handles MyBase.Load
4         MsgBox("Application is starting...", MsgBoxStyle.OkOnly, "Loading Application")
5     End Sub
6
7     'Add Button
8     Private Sub btnAdd_Click(sender As Object, e As EventArgs) Handles btnAdd.Click
9         If cmbxItemName.SelectedIndex <> -1 Then
10             If numericQuantity.Value <> 0 Then
11                 Dim itemprice As Double = 0
12                 Dim startprice As Integer = cmbxItemName.SelectedItem.ToString().IndexOf("RM") + 2 'Acquire position of RM
13
14                 If startprice <> -1 Then
15                     Dim price As Double
16
17                     'Trimming
18                     Dim strprice As String = cmbxItemName.SelectedItem.ToString().Substring(startprice).Trim()
19
20                     If Double.TryParse(strprice, price) Then
21                         itemprice = numericQuantity.Value * price
22
23                         'Adding item to listbox
24                         lstbxOrder.Items.Add(cmbxItemName.SelectedItem & "(" & numericQuantity.Value & ")" & " = " & "RM" & Format(itemprice, "0.00"))
25
26                         'Clearing selected item
27                         numericQuantity.Value = numericQuantity.Minimum
28                         cmbxItemName.SelectedIndex = -1
29                     End If
30                 End If
31             Else
32                 MsgBox("Please enter quantity", vbOKOnly + vbExclamation, "Quantity Not Selected")
33             End If
34         Else
35             MsgBox("Please select Item.", vbOKOnly + vbExclamation, "Item Not Selected")
36         End If
37     End Sub
38
39     'Calculate Button
40     Private Sub btnCalc_Click(sender As Object, e As EventArgs) Handles btnCalc.Click
41         If txtTableNum.Text <> "" Then
42             Dim total As Double = 0
43
44             For Each item As String In lstbxOrder.Items
45                 Dim startprice As Integer = item.IndexOf("RM") + 2 'Acquire position of RM
46
47                 If startprice <> -1 Then
48                     Dim itemprice As Double
49
50                     'Trimming
51                     Dim itemclean As String = item.Substring(startprice).TrimStart("c, .*c")
52
53                     'Extract quantity from the cleaned item
54                     Dim startquantity As Integer = itemclean.IndexOf("(") + 1
55                     Dim endquantity As Integer = itemclean.IndexOf(")")
56
57                     If startquantity <> -1 And endquantity <> -1 Then
58                         Dim quantity As Integer
59                         If Integer.TryParse(itemclean.Substring(startquantity, endquantity - startquantity), quantity) Then
60                             'Extract the price
61                             Dim priceString As String = itemclean.Substring(0, startquantity - 1).Trim()
62                             If Double.TryParse(priceString, itemprice) Then
63                                 total += quantity * itemprice
64                             End If
65                         End If
66                     End If
67                 End If
68             Next
69             'Display the total in a label or textbox
70             txtTotalBill.Text = "RM" & Format(total, "0.00")
71         Else
72             MsgBox("Table number not entered", vbOKOnly + vbCritical, "Table Number Not Entered")
73         End If
74     End Sub
75
76     'Clear Button
77     Private Sub btnClear_Click(sender As Object, e As EventArgs) Handles btnClear.Click
78         txtTableNum.Text = ""
79         numericQuantity.Value = numericQuantity.Minimum
80         cmbxItemName.SelectedIndex = -1
81         lstbxOrder.Items.Clear()
82         txtTotalBill.Text = ""
83     End Sub
84
85     'Exit Button
86     Private Sub btnExit_Click(sender As Object, e As EventArgs) Handles btnExit.Click
87         Dim result As MsgBoxResult = MsgBox("Do you want to exit the application?", vbYesNo + vbQuestion, "Exit Confirmation")
88         If result = MsgBoxResult.Yes Then
89             Me.Close()
90         End If
91     End Sub
92 End Class
```

Process

1) Load App

Loading Application ✕

Application is starting...

OK

2) Start page

Bill Calculator ✕

BILL CALCULATOR

Table Number:

Item Name:

Quantity:

Add Item


Order List:

Calculate Total


Total Bill:

Clear

Exit



3) Sample 1

 Bill Calculator ×

BILL CALCULATOR

Table Number:

Item Name:

Quantity:


Order List:

Coffee RM2.50(1) = RM2.50


Tea RM2.00(2) = RM4.00

Burger RM8.00(2) = RM16.00

Total Bill:



4) Sample 2

 Bill Calculator ×

BILL CALCULATOR

Table Number:


Item Name:

Quantity:


Order List:

Sandwich RM5.00(4) = RM20.00
Coffee RM2.50(2) = RM5.00
Tea RM2.00(2) = RM4.00

Total Bill:



5) Sample 3

 Bill Calculator ×

BILL CALCULATOR

Table Number:

Item Name: ▼

Quantity: ▲ ▼

Order List:

Salad RM6.50(1) = RM6.50


Coffee RM2.50(1) = RM2.50

Sandwich RM5.00(1) = RM5.00

Burger RM8.00(1) = RM8.00

Tea RM2.00(1) = RM2.00

Total Bill:



6) Error Item

BILL CALCULATOR

Table Number:

Item Name:

Quantity:

Add Item

Order List

Item Name	Quantity

Calculate Total

Total Bill:

Clear **Exit**

Item Not Selected

! Please select item.

OK

7) Error Table Number

Bill Calculator

BILL CALCULATOR

Table Number:

Item Name:


Quantity:

Order List:

- Coffee
- Tea
- Sandwich
- Salad
- Burger

Total Bill:

Table Number Not Entered

 Table number not entered

8) Exit App

Bill Calculator

BILL CALCULATOR

Table Number:

Item Name:

Quantity:

Exit Confirmation

Do you want to exit the application?

Total Bill:

