```
1 'Tyler Hattan
 2 'Project: Update 6-1 to 7-2
 3 '9/8/2020
 4 'Calculates Invoice Total
 6 'Using Select Case seems to be easier to read since it breaks it into sections.
                                                                                        P
     The switch statement in Java and C# does not use "End Select"
 7
 8 Public Class frmInvoiceTotal
 9
10
        Private Sub btnCalculate_Click(sender As Object,
                e As EventArgs) Handles btnCalculate.Click
11
12
13
           Dim subtotal As Decimal = CDec(txtSubtotal.Text)
14
           Dim discountPercent As Decimal
15
            Dim customerType As String = txtCustomerType.Text.ToUpper()
           Dim validCustomerType As Boolean
16
17
           Dim validSubtotal As Boolean
18
19
           validCustomerType = IsValidCustomerType(customerType)
20
           validSubtotal = IsValidSubtotal(subtotal)
21
22
           If validCustomerType = True AndAlso validSubtotal = True Then
23
                discountPercent = DiscountPct(subtotal, discountPercent, customerType)
24
25
                Dim discountAmount As Decimal = subtotal * discountPercent
                Dim invoiceTotal As Decimal = subtotal - discountAmount
26
27
28
                txtDiscountPercent.Text = FormatPercent(discountPercent, 1)
29
                txtDiscountAmount.Text = FormatCurrency(discountAmount)
                txtTotal.Text = FormatCurrency(invoiceTotal)
           End If
31
32
33
           txtCustomerType.Select()
35
36
       End Sub
37
38
       Private Shared Function DiscountPct(subtotal As Decimal, discountPercent As
          Decimal, customerType As String) As Decimal
39
            Select Case customerType
40
                Case "R"
41
                    If subtotal < 100 Then</pre>
                        discountPercent = 0
42
43
                    ElseIf subtotal >= 100 AndAlso subtotal < 250 Then
44
                        discountPercent = 0.1D
45
                    ElseIf subtotal >= 250 AndAlso subtotal < 500 Then
46
                        discountPercent = 0.25D
47
                    ElseIf subtotal >= 500 Then
48
                        discountPercent = 0.3D
49
                   End If
50
```

```
...\VisualBasicClass\InvoiceTotal5-1Start\frmInvoiceTotal.vb
                                                                                        2
                Case "C"
51
52
                    discountPercent = 0.2D
53
                Case "T"
54
55
                    discountPercent = 0.4D
56
57
                                Case Else
58
59
                                   discountPercent = 0.1D
60
           End Select
61
62
            Return discountPercent
       End Function
63
64
65
       Private Function IsValidCustomerType(customerType As String) As Boolean
            customerType.ToUpper()
66
           If customerType = "R" Or customerType = "C" Or customerType = "T" Then
67
68
                Return True
69
           Else
70
                MessageBox.Show("Customer Type must be either R, C or T")
71
                Return False
72
           End If
73
74
       End Function
75
76
       Private Function IsValidSubtotal(subtotal As Decimal) As Boolean
77
           If subtotal < 0 OrElse subtotal > 1000 Then
78
                MessageBox.Show("Subtotal must be between 0 and 1000")
79
                Return False
80
           Else
81
                Return True
82
           End If
83
        End Function
84
85
       Private Sub ClearAllBoxes(sender As Object, e As EventArgs) Handles
         txtCustomerType.TextChanged, txtSubtotal.TextChanged
           txtDiscountAmount.Text = ""
86
           txtDiscountPercent.Text = ""
87
88
           txtTotal.Text = ""
```

89

90 91

92

93

94

95

96 End Class

End Sub

End Sub

Me.Close()

Private Sub btnExit\_Click(sender As Object,

e As EventArgs) Handles btnExit.Click