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' Lab #5, Chapter 4, Building Plans Convertion
 2 ' Juan Carlos Flores Palacios, 900329145
 3 ' CS 111, Sec. E01A LAB
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 5 ' Purpose: This program converts from meters to inches or from inches to meters
 6 ' one inch is equivalent to 0.0254 meters and one meter is equivalent to 39.37008 ➤
 7
 8
 9 Public Class frmBuildingPC
        'Const declaration
10
11
       Const oneInchInMeters As Decimal = 0.0254D
12
13
        Const oneMeterInInches As Decimal = 39.37008D
14
15
       Private Sub btnConvert_Click(sender As Object, e As EventArgs) Handles
16
          btnConvert.Click
            'This event handler is executed when user clicks the Convert button
17
            'It calculates the convertion from meters to inches and from inches to
18
            'If the user's entry is blak or nonnumertic the user is advised and asked
19
20
            'for a valid entry
21
            'Declaration section
22
23
            Dim userEntry As Decimal
24
            Dim decMeters As Decimal
25
26
27
            'Did the user enter a numeric value?
28
            If IsNumeric(txtDimention.Text) Then
29
                userEntry = Convert.ToDecimal(txtDimention.Text)
30
                'Is square footage grater than zero
31
                If userEntry > 0 Then
32
                    'Determine cost
33
                    If rdbInchesToMeter.Checked Then
34
                        decMeters = userEntry * oneInchInMeters
35
                        'Display the conversion
                        lblResult.Text = decMeters.ToString("F3") & " Meters"
36
37
                    ElseIf rdbMeterToInches.Checked Then
38
                        decMeters = userEntry * oneMeterInInches
39
                        'Display the conversion
40
                        lblResult.Text = decMeters.ToString("F3") & " Inches"
                    ElseIf rdbInchesToMeter.Checked = False Or
41
                      rdbMeterToInches.Checked = False Then
42
                        'Display error message if user a choice is not selected
                        MsgBox("Must make a selection, try again",, "Imput Error")
43
                        lblResult.Text = ""
44
45
                        txtDimention.Focus()
46
47
                    End If
                Else
48
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49
                    'Display error message if user entered a negative value
50
                    MsgBox("Must enter a number grater than zero",, "Imput Error")
                    lblResult.Text = ""
51
                    txtDimention.Text = ""
52
53
                    rdbMeterToInches.Checked = False
54
                    rdbInchesToMeter.Checked = False
55
                    txtDimention.Focus()
56
                End If
57
58
            Else
                'Display error message if user entered an string or blank
59
                MsgBox("Strings or blank not allowed, try again",, "Imput Error")
60
                lblResult.Text = ""
61
                txtDimention.Text = ""
62
63
                rdbMeterToInches.Checked = False
64
                rdbInchesToMeter.Checked = False
                txtDimention.Focus()
65
            End If
66
67
68
       End Sub
69
       Private Sub btnClear_Click(sender As Object, e As EventArgs) Handles
70
          btnClear.Click
            'This event handler is excuted when user clicks the Clear Button.
71
            'It clears the lblResult label and the the txtDimention text box
72
73
            'Also it clears the selection section
74
            lblResult.Text = ""
75
            txtDimention.Text = ""
76
77
            rdbInchesToMeter.Checked = False
78
            rdbMeterToInches.Checked = False
79
       End Sub
80
81
82
       Private Sub frmBuildingPC_Load(sender As Object, e As EventArgs) Handles
         MyBase.Load
83
            'This event handler is executed when the form is loaded at the start of
            'the program. It sets the focus to thetxtDimention text box and clears
84
85
            'The result text box
87
            txtDimention.Focus()
            lblResult.Text = ""
89
        End Sub
90 End Class
```