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**Visual Basic 2013 Lesson 20: Using Check Box**

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We have learned how to use some of the controls in Visual Basic 2013 in lesson 5, lesson 6 and lesson 7. In this lesson, we shall learn a very useful control in Visual Basic 2013, the check box. The Check box allows the user to select one or more items by checking the check box or check boxes concerned. For example, in the Font dialog box of any Microsoft Text editor like FrontPage, there are many check boxes under the Effects section such as that shown in the diagram below. The user can choose underline, subscript, small caps, superscript, blink and etc. In Visual Basic 2013, you may create a shopping cart where the user can click on check boxes that correspond to the items they intend to buy, and the total payment can be computed at the same time.

**Example 20.1: Shopping Cart**

In this example, we add a few labels, two buttons and six check boxes. We declare the price of each item using the Const keyword. If a check box is being ticked, its state is True else its state is False. To calculate the total amount of purchase, we use the mathematical operator +=. For example, sum+=BN is actually sum=sum+BN. Finally, we use the ToString method to display the the amount in currency.

**The Code**

Public Class Form1

Private Sub BtnCal\_Click(sender As Object, e As EventArgs) Handles BtnCal.Click  
Const LX As Integer = 100  
Const BN As Integer = 500  
Const SD As Integer = 200  
Const HD As Integer = 80  
Const HM As Integer = 300  
Const AM As Integer = 150  
Dim sum As Integer  
If CheckBox1.Checked = True Then  
sum += LX  
End If

If CheckBox2.Checked = True Then  
sum += BN  
End If

If CheckBox3.Checked = True Then  
sum += SD  
End If  
If CheckBox4.Checked = True Then  
sum += HD  
End If

If CheckBox5.Checked = True Then  
sum += HM  
End If

If CheckBox6.Checked = True Then  
sum += AM  
End If  
LblTotal.Text = sum.ToString(“c”)  
End Sub

Private Sub BtnReset\_Click(sender As Object, e As EventArgs) Handles BtnReset.Click  
CheckBox1.Checked = False  
CheckBox2.Checked = False  
CheckBox3.Checked = False  
CheckBox4.Checked = False  
CheckBox5.Checked = False  
CheckBox6.Checked = False

End Sub  
End Class

The Runtime Interface

|  |  |
| --- | --- |
| **Figure 20.1: Shopping Cart** |  |

Here is another example

**Example 20.2**

Private Sub Button1\_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Button1.Click

Const large As Integer = 10.0  
Const medium As Integer = 8  
Const small As Integer = 5  
Dim sum As Integer

If CheckBox1.Checked = True Then  
sum += large  
End If

If CheckBox2.Checked = True Then  
sum += medium  
End If

If CheckBox3.Checked = True Then  
sum += small  
End If  
Label5.Text = sum.ToString(“c”)

End Sub

**Example 20.3**

In this example, the text on the label can be formatting using the three check boxes that represent bold, italic and underline.

**The Code**

Public Class Form1

Private Sub ChkBold\_CheckedChanged(sender As Object, e As EventArgs) Handles ChkBold.CheckedChanged  
If ChkBold.Checked Then  
LblDisplay.Font = New Font(LblDisplay.Font, LblDisplay.Font.Style Or FontStyle.Bold)  
Else  
LblDisplay.Font = New Font(LblDisplay.Font, LblDisplay.Font.Style And Not FontStyle.Bold)

End If  
End Sub

Private Sub ChkItalic\_CheckedChanged(sender As Object, e As EventArgs) Handles ChkItalic.CheckedChanged  
If ChkItalic.Checked Then  
LblDisplay.Font = New Font(LblDisplay.Font, LblDisplay.Font.Style Or FontStyle.Italic)  
Else  
LblDisplay.Font = New Font(LblDisplay.Font, LblDisplay.Font.Style And Not FontStyle.Italic)

End If  
End Sub

Private Sub ChkUnder\_CheckedChanged(sender As Object, e As EventArgs) Handles ChkUnder.CheckedChanged  
If ChkUnder.Checked Then  
LblDisplay.Font = New Font(LblDisplay.Font, LblDisplay.Font.Style Or FontStyle.Underline)  
Else  
LblDisplay.Font = New Font(LblDisplay.Font, LblDisplay.Font.Style And Not FontStyle.Underline)

End If  
End Sub  
End Class

\* The above program uses the CheckedChanged event to respond to the user selection by checking a particular check box, it is similar to the click event. The statement

LblDisplay.Font = New Font(LblDisplay.Font, LblDisplay.Font.Style Or FontStyle.Italic)

will retain the original font type but change it to italic font style.

LblDisplay.Font = New Font(LblDisplay.Font, LblDisplay.Font.Style And Not FontStyle.Italic)

will also retain the original font type but change it to regular font style. (The other statements employ the same logic)

The Output

|  |  |
| --- | --- |
| **Figure 20.2** |  |

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