Assignment: Page 126 Number 24

Instructions: A copy center charges 5 cent per copy for the first 100 copies and 3 cents per copy for each additional copy. Write a program that requests the number of copies as input and displays the total cost.

Program Display:
Option Strict On

Public Class frmName

Private Sub btnCompute_Click(sender As System.Object, e As System.EventArgs) Handles btnCompute.Click
    Dim num, cost As Double
    num = CDbl(txtCopies.Text)
    If num < 101 Then
        cost = 0.05 * num
    Else
        cost = ((num * 0.03) - 3) + 5
    End If
    txtCost.Text = "The cost is " & cost
End Sub

Private Sub btnPrint_Click(sender As System.Object, e As System.EventArgs) Handles btnPrint.Click
    PrintForm1.PrintAction = Printing.PrintAction.PrintToPreview
    PrintForm1.Print()
End Sub

End Class
Assignment: Page 129 Number 38

Instructions: The flowchart in Fig. 4.5 calculates a person’s state income tax. Write a program corresponding to the flowchart. (Test the program with taxable incomes of $15,000 and $30,000.)
Program Display:
Option Strict On

Public Class frmIncomeTax

Private Sub btnCompute_Click(sender As System.Object, e As System.EventArgs) Handles btnCompute.Click
    Dim a As Double
    a = CDbl(txtIncome.Text)
    Dim b As String
    b = CStr(a)
    If a <= 20000 Then
        b = CStr(0.02 * a)
    ElseIf a <= 50000 Then
        b = CStr(400 + 0.025 * (a - 20000))
    Else
        b = CStr(1150 + 0.035 * (a - 50000))
    End If
    txtTax.Text = CStr(b)
End Sub

Private Sub btnPrint_Click(sender As System.Object, e As System.EventArgs) Handles btnPrint.Click
    PrintForm1.PrintAction = Printing.PrintAction.PrintToPreview
    PrintForm1.Print()
End Sub

End Class
Assignment: Page 83 Number 48

Instructions: Write a program that requests a (complete) phone number in a text box and then displays the area code in another text box when a button is clicked

Program Display:
Option Strict On

Public Class frmAreaCode

Private Sub Button1_Click(sender As System.Object, e As System.EventArgs) Handles btnAreaCode.Click
  Dim Number As String
  Dim AreaCode As String
  Number = (txtNumber.Text)
  AreaCode = (Number.Substring(0, 3))
  txtAreaCode.Text = AreaCode
End Sub

Private Sub txtAreaCode_TextChanged(sender As System.Object, e As System.EventArgs) Handles txtAreaCode.TextChanged
End Sub

Private Sub btnPrint_Click(sender As System.Object, e As System.EventArgs) Handles btnPrint.Click
  PrintForm1.PrintAction - Printing.PrintAction.PrintToPreview

  PrintForm1.Print()
End Sub
End Class
Assignment: Page 83 Number 42

Instructions: Write a code to read the name of a baseball team, the number of games won, and the number of games lost, and display the name of the team and the percentage of games won.

Program Display:
Option Strict On

Public Class frmBaseball

Private Sub frmBaseball_Load(sender As System.Object, e As System.EventArgs) Handles MyBase.Load
    End Sub

Private Sub btnPercentage_Click(sender As System.Object, e As System.EventArgs) Handles btnPercentage.Click
    Dim x, y, g As Double
    Dim d As String
    d = txtTeamName.Text
    x = CDBl(txtWon.Text)
    y = CDBl(txtLost.Text)
    g = CDBl(x / (x + y) * 100)
    txtPercent.Text = "The " & CStr(d) & " won " & CStr(g) & " percent of their games."

    End Sub

Private Sub btnPrint_Click(sender As System.Object, e As System.EventArgs) Handles btnPrint.Click
    PrintForm1.PrintAction = Printing.PrintAction.PrintToPreview
    PrintForm1.Print()

    End Sub

End Class