```
End Get
  End Property
End Class
             'CashRegister
Class FastTrackRegister
  Inherits CashRegister
  Private m count As Integer
  Public ReadOnly Property Count() As Integer
    Get
      Return m count
    End Get
  End Property
  Sub ProcessCar()
    m count += 1
                    'Process a car: $1.00
    Deposit(1)
  End Sub
  Sub ProcessTruck()
    m count += 1
                   'Process a truck: $2.00
    Deposit(2)
  End Sub
End Class
               'FastTrackRegister
```



## CHAPTER 12

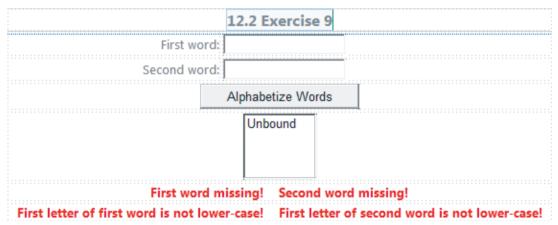
#### **EXERCISES 12.1**

```
1. Protected Sub btnFind_Click(...) Handles btnFind.Click
    Dim max As Double = CDbl(txtFirstNum.Text)
    If CDbl(txtSecondNum.Text) > max Then
        max = CDbl(txtSecondNum.Text)
    End If
    If CDbl(txtThirdNum.Text) > max Then
        max = CDbl(txtThirdNum.Text)
    End If
    txtLargestNum.Text = CStr(max)
End Sub
```

```
3. Protected Sub btnDisplay Click(...) Handles btnDisplay.Click
     Dim num As Integer = CInt(txtNumber.Text)
     For i As Integer = 1 To num - 1
       lstOutput.Items.Add(i & " potato")
    lstOutput.Items.Add(num)
  End Sub
5. Protected Sub btnCalculate Click(...) Handles btnCalculate.Click
     Dim purchPrice As Double = CDbl(txtPurPrice.Text)
     Dim redemValue As Double = CDbl(txtRedValue.Text)
     txtDiscRate.Text = FormatPercent((redemValue - purchPrice) / redemValue)
     txtIntRate.Text = FormatPercent((redemValue - purchPrice) / purchPrice)
  End Sub
EXERCISES 12.2
1. Protected Sub Page Load(...) Handles Me.Load
     If Not IsPostBack Then
      Dim states() As String =
                    IO.File.ReadAllLines(MapPath("App Data\States.txt"))
       Dim query = From state In states
                   Order By state
                   Select state
       lstStates.DataSource = query
       lstStates.DataBind()
       txtNumStates.Text = CStr(lstStates.Items.Count)
    End If
  End Sub
  Protected Sub btnDelete Click(...) Handles btnDelete.Click
     lstStates.Items.Remove(lstStates.Text)
     txtNumStates.Text = CStr(lstStates.Items.Count)
  End Sub
                               12.2 Exercise 3
                           Model
                          Deluxe Super
                         Upgraded Video Card
                         Internal Modem + Wi-Fi
                         1 GB additional memory
                           Total cost:
                            You must select a model!
3. 'Note: The AutoPostBack and CausesValidation properties were
   'set to True for each check box.
  Protected Sub rblModel SelectedIndexChanged(...) Handles
     rblModel.SelectedIndexChanged, chkUpgradedVideo.CheckedChanged,
     chkModem.CheckedChanged, chkMemory.CheckedChanged
```

Dim cost As Double = 0 'Add amounts to the cost based upon selections. If rblModel.Text = "Deluxe" Then cost += 1000

```
Else
      cost += 1500
    If chkUpgradedVideo.Checked Then
      cost += 200
    End If
    If chkModem.Checked Then
      cost += 30
    End If
    If chkMemory.Checked Then
      cost += 120
    End If
    txtOutput.Text = FormatCurrency(cost)
  End Sub
9. 'In RangeValidator controls, Minimum is "a" and Maximum is "zzzzzzz".
  Protected Sub btnAlphabetize Click (...) Handles btnAlphabetize.Click
    Dim word1 = txtWord1.Text
    Dim word2 = txtWord2.Text
    DisplayWords (word1, word2)
  End Sub
  Sub DisplayWords (ByVal word1 As String, ByVal word2 As String)
    lstOutput.Items.Clear()
    If word1 <= word2 Then
      lstOutput.Items.Add(word1)
      lstOutput.Items.Add(word2)
    Else
      lstOutput.Items.Add(word2)
      lstOutput.Items.Add(word1)
    End If
  End Sub
```



```
Select name, pres, yrsServed
grvJustices.DataSource = query
grvJustices.DataBind()
grvJustices.HeaderRow.Cells(0).Text = "Justice"
grvJustices.HeaderRow.Cells(1).Text = "Appointing President"
grvJustices.HeaderRow.Cells(2).Text = "Years Served"
End Sub

Function YearsServed(ByVal enter As Double,
ByVal leave As Double) As Double

If leave = 0 Then
Return (Now.Year - enter)
Else
Return (leave - enter)
End If
End Function
```

#### **12.2 Exercise 11**

State abbreviation: MD

### Display Justices

Justice	Appointing President	Years Served
Samuel Chase	George Washington	15
Gabriel Duval	James Madison	25
Thomas Johnson	George Washington	2
John Roberts	George W. Bush	5
Roger Taney	Andrew Jackson	28

#### **EXERCISES 12.3**

```
7. Protected Sub btnDisplay Click(...) Handles btnDisplay.Click
    Dim mcDC As New MegacitiesDataContext
    Dim query = From city In mcDC.Cities
                 Join country In mcDC. Countries On city.country Equals
                 country.name
                 Select city.name, country.pop2010
    chtMegacities.DataBindTable(query, "name")
    chtMegacities.ChartAreas(0).AxisX.Interval = 1
    chtMegacities.ChartAreas(0).AxisX.Title = "City"
    chtMegacities.ChartAreas(0).AxisY.Title =
                                          "2010 Pop. of Country in Millions"
  End Sub
17. Protected Sub btnDisplay Click(...) Handles btnDisplay.Click
    Dim pizzaDC As New PizzaDataContext
    Dim query = From chain In pizzaDC.Pizzerias
                Order By chain.sales2008 Descending
                Let amount = chain.sales2008 / 1000000
                Select chain.name, amount
    chtPizzaChains.DataBindTable(query, "name")
    chtPizzaChains.ChartAreas(0).AxisX.Interval = 1
    chtPizzaChains.ChartAreas(0).AxisX.Title = "Pizzeria"
    chtPizzaChains.ChartAreas(0).AxisY.Title = "2008 Sales in Billions"
  End Sub
```

# 12.3 Exercise 25

Display Total Number of Stores

Total number of stores: 20,945