```vb
1  ''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''
2  ''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''
3  'Project:       PayrollInheritance                             '
4  'Programmer:    Kevin Dougherty                                '
5  'Module:        PayrollSalaried.vb Class                       '
6  'Date:          January 2007                                   '
7  '                                                              '
8  'Description:   Class in the business tier for payroll calculation: '
9  '               instantites its own objects through the base class and '
10 '               validates input data and calculates the pay for '
11 '               salaried employees based on a salary array.    '
12 'Folder:        Ch02HandsOn                                    '
13 'Modified:      February 12, 2013                              '
14 '               Updated names to match current Program Style Guide '
15 ''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''
16 ''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''
17
18 Friend Class PayrollSalaried
19     Inherits Payroll
20
21 #Region "Instance and Shared Property Variables"
22     ' Instance property variables.
23     Private salaryLevel As Integer              ' Hold SalaryLevel property.
24     Private salary As Decimal                   ' Hold SalaryPay property.
25
26     ' Shared property variables.
27     Private Shared salaryTotal As Decimal       ' Hold SalaryTotal shared property.
28
29 #End Region
30
31 #Region "Constructors"
32
33     Friend Sub New()
34         ' Empty constructor for inheritance and instantiation.
35
36     End Sub
37
38     Friend Sub New(ByVal levelValue As Integer)
39         ' Assign object property values and determine salary
40
41         ' Call the empty constructor of the base class
42         MyBase.New()
43         ' Set the salaray level using the SalaryLevel property procedure
44         Me.SalaryLevelAccessor = levelValue
45         ' Call to the method to determine employee salary
46         Me.FindPay()
47     End Sub
48
49 #End Region
50
```

```vbnet
51 #Region "Class Methods"
52
53      Protected Overrides Sub findPay()
54          ' Declaration of salary array, matched up to
55          ' salary levels, for determination of salary
56          Dim salaryArray() As Decimal = _
57              {0D, 800D, 950D, 1075D, 1250D, 1500D}
58
59          ' Calculate the salary based on the level.
60
61          ' use the salary level as an index to the salary array
62          salary = salaryArray(salaryLevel)
63          ' Add to total salary hours
64          salaryTotal += salary
65
66          ' Increment the number of employees processed
67          ' by accessing the shared variable in the base class
68          numberOfEmployees += 1
69      End Sub
70
71 #End Region
72
73 #Region "Property Procedures"
74
75      Friend Property SalaryLevelAccessor() As Integer
76          ' Read and Write the salary level for the employee
77          ' Includes validation of salary level withing minimum and maximum
78
79          ' Read and return the salary level for an object
80          Get
81              Return salaryLevel
82          End Get
83
84          ' Write the salary level for an object after passing validaion
85          Set(ByVal setLevelValue As Integer)
86              ' Local constant declarations
87              Const MIN_LEVEL As Integer = 1      ' The minimum salary level
88              Const MAX_LEVEL As Integer = 5      ' The maximum salary level
89
90              ' Is the value passed to this procerure within the
91              ' acceptable range for salary level for an employee?
92              If setLevelValue >= MIN_LEVEL And setLevelValue <= MAX_LEVEL Then
93                  ' Write to the salary level field
94                  salaryLevel = setLevelValue
95              Else
96                  ' If outside of range, throw a new Application Exception
97                  ' to the calling class, including a message.
98                  Throw New ApplicationException("Salary level must be 1-5.")
99              End If
100         End Set
```

```vbnet
101     End Property
102
103     Friend ReadOnly Property SalaryPay() As Decimal
104         ' Read and return the salay pay, this field cannot be
105         ' written to ouside of the findPay() method
106         Get
107             Return salary
108         End Get
109     End Property
110
111     Friend Shared ReadOnly Property SalaryTotalPay() As Decimal
112         ' Read and return the total salay pay, this field cannot be
113         ' written to ouside of the findPay() method
114         Get
115             Return salaryTotal
116         End Get
117     End Property
118
119 #End Region
120
121 End Class
122
```