```vb
'Ch 5 Demo 2                                              Name -
'using two-dimensional arrays
'                                                         Period -

Public Class Form1
    Inherits System.Windows.Forms.Form

 Windows Form Designer generated code

    'bowling game scores of 5 bowlers (3 games for each bowler)
    Dim mintScores(,) As Integer = {{100, 200, 300}, _
                                    {100, 100, 100}, _
                                    {200, 200, 200}, _
                                    {299, 300, 298}, _
                                    {150, 150, 150}}


    Private Sub btnSum_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) _
    Handles btnSum.Click
        ' computes the sum of the elements of a two-dimensional array

        Dim intRow As Integer = 0        ' row of array
        Dim intCol As Integer = 0        ' column of array
        Dim intSum As Integer = 0        ' sum of elements in array

        For intRow = 0 To 4

            For intCol = 0 To 2
                intSum = intSum + mintScores(intRow, intCol)
            Next

        Next

        lblSum.Text = intSum.ToString()
    End Sub

    Private Sub btnMax_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) _
    Handles btnMax.Click
        ' uses linear search to find the maximum element of a two-dimensional array

        Dim intRow As Integer = 0        ' row of array
        Dim intCol As Integer = 0        ' column of array
        Dim intMax As Integer = 0        ' maximum element of array

        For intRow = 0 To 4

            For intCol = 0 To 2

                If (mintScores(intRow, intCol) > intMax) Then
                    intMax = mintScores(intRow, intCol)
                End If

            Next

        Next

        lblMax.Text = intMax.ToString()
    End Sub

    Private Sub btnBowlerAverages_Click(ByVal sender As System.Object, ByVal e As System. _
    EventArgs) Handles btnBowlerAverages.Click
        ' computes bowling averages of each bowler

        Dim intRow As Integer = 0        ' row of array
        Dim intCol As Integer = 0        ' column of array
        Dim intSum As Integer = 0        ' sum of bowling scores
        Dim dblAverages(4) As Double     ' averages of the bowlers
```

```vb
        For intRow = 0 To 4
            intSum = 0

            For intCol = 0 To 2           ' finding sum of current bowler's games
                intSum = intSum + mintScores(intRow, intCol)
            Next

            dblAverages(intRow) = intSum / 3          ' computing current bowler's average
        Next

        lblBowlerAverages.Text = dblAverages(0).ToString() + " " + _
            dblAverages(1).ToString() + " " + dblAverages(2).ToString() + " " _
            + dblAverages(3).ToString() + " " + dblAverages(4).ToString()
    End Sub

End Class
```