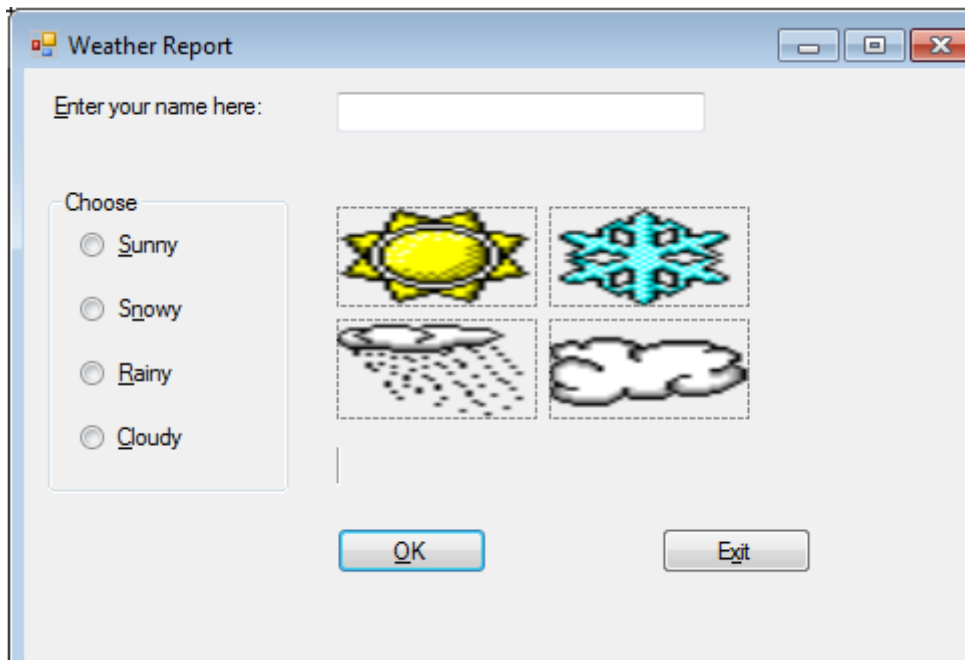


LAB4

1.



```
Public Class WeatherForm
```

```
    Private Sub OkButton_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles OkButton.Click
        'Display the selected weather icon and display the weather forecast in the label

        'Validate that the name was entered
        If NameTextBox.Text <> "" Then
            'Validate that a type of weather was selected
            If SunnyRadioButton.Checked Or SnowyRadioButton.Checked Or RainyRadioButton.Checked Or CloudyRadioButton.Checked Then

                'Make all the icons invisible
                SunnyPictureBox.Visible = False
                SnowyPictureBox.Visible = False
                RainyPictureBox.Visible = False
                CloudyPictureBox.Visible = False

                If SunnyRadioButton.Checked = True Then
                    SunnyPictureBox.Visible = True
                    WeatherLabel.Text = "It will be sunny today, " & NameTextBox.Text & "."
                ElseIf SnowyRadioButton.Checked Then
                    SnowyPictureBox.Visible = True
                    WeatherLabel.Text = "It will snow today, " & NameTextBox.Text & "."
                ElseIf RainyRadioButton.Checked = True Then
                    RainyPictureBox.Visible = True
                    WeatherLabel.Text = "It will be rainy today, " & NameTextBox.Text & "."
                ElseIf CloudyRadioButton.Checked = True Then
```

```

        CloudyPictureBox.Visible = True
        WeatherLabel.Text = "It will be cloudy today, " &
NameTextBox.Text & "."
    End If
    Else
        MessageBox.Show("Please select the type of weather.", "Selection
Required", MessageBoxButtons.OK, MessageBoxIcon.Warning)
    End If
    Else
        MessageBox.Show("Please enter your name", "Input Needed",
MessageBoxButtons.OK, MessageBoxIcon.Warning)
        NameTextBox.Focus()
    End If
End Sub

Private Sub ExitButton_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles ExitButton.Click
    'End the project

    Me.Close()
End Sub

End Class

```

2.

The screenshot shows a Windows application window titled "Catherine's Catering". The window has a standard Windows title bar with minimize, maximize, and close buttons. The main content area contains the following elements:

- A text box labeled "Number of Guests" with a cursor inside.
- A group box labeled "Menu Choices" containing three radio buttons:
 - Prime Rib
 - Chicken
 - Pasta
- A text box labeled "Amount Due" with a cursor inside.
- Four buttons arranged in two rows:
 - Top row: "Calculate", "Clear", "Summary"
 - Bottom row: "Exit"

Public Class CateringForm

```

'Declare the module-level variables and constants.
Const PRIME_RIB_Decimal As Decimal = 25.95D
Const CHICKEN_Decimal As Decimal = 18.95D
Const PASTA_Decimal As Decimal = 12.95D

```

```

Private TotalEventsInteger As Integer
Private TotalDollarAmountDecimal As Decimal

Private Sub CalculateButton_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles CalculateButton.Click
    'Calculate the amount due for catering this event.
    Dim NumberGuestsInteger As Integer
    Dim MealCostDecimal, ExtraDecimal, AmountDueDecimal As Decimal
    Dim MessageString As String

    Try
        NumberGuestsInteger = Integer.Parse(GuestTextBox.Text)

        'Determine which menu was chosen.
        If PrimeRibRadioButton.Checked Or ChickenRadioButton.Checked Or
PastaRadioButton.Checked Then
            If PrimeRibRadioButton.Checked Then
                MealCostDecimal = PRIME_RIB_Decimal
            ElseIf ChickenRadioButton.Checked Then
                MealCostDecimal = CHICKEN_Decimal
            Else
                MealCostDecimal = PASTA_Decimal
            End If

            'Calculate and display the amount due for this event.
            AmountDueDecimal = NumberGuestsInteger * MealCostDecimal
            AmountDueTextBox.Text = AmountDueDecimal.ToString("C")

            'Calculate the total for all events.
            TotalEventsInteger += 1
            TotalDollarAmountDecimal += AmountDueDecimal

        Else
            MessageBox.Show("Please make a menu selection.", "Input Needed",
MessageBoxButtons.OK, MessageBoxIcon.Error)
        End If

        Catch QuantityException As FormatException
            MessageBox.Show("Number of guests must be numeric.",
                "Data Entry Error", MessageBoxButtons.OK,
                MessageBoxIcon.Information)
            With GuestTextBox
                .Focus()
                .SelectAll()
            End With
        Catch AnException As Exception
            MessageString = "Error: " & AnException.Message
            MessageBox.Show(MessageString, "Error", MessageBoxButtons.OK,
MessageBoxIcon.Warning)
        End Try
    End Sub

Private Sub ClearButton_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles ClearButton.Click
    'Clear the form.

    PrimeRibRadioButton.Checked = False
    ChickenRadioButton.Checked = False

```

```

PastaRadioButton.Checked = False

AmountDueTextBox.Text = ""
With GuestTextBox
    .Clear()
    .Focus()
End With
End Sub

Private Sub SummaryButton_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles SummaryButton.Click
    'Display the summary information.
    Dim MessageString As String
    Dim ReturnDialogResult As DialogResult

    If TotalEventsInteger > 0 Then
        ' Concatenate the message string.
        MessageString = "Total Number of Events: " &
            TotalEventsInteger.ToString() &
            Environment.NewLine & Environment.NewLine &
            "Total Dollar Amount: " & TotalDollarAmountDecimal.ToString("C")
&
            Environment.NewLine & Environment.NewLine &
            Environment.NewLine & Environment.NewLine &
            "Would you like to clear the summary information?"
        ReturnDialogResult = MessageBox.Show(MessageString, "Catherine's
Catering Summary",
            MessageBoxButtons.YesNo, MessageBoxIcon.Information)

        If ReturnDialogResult = DialogResult.Yes Then ' User said Yes.
            'Reset the summary variables.
            TotalEventsInteger = 0
            TotalDollarAmountDecimal = 0
            ClearButton_Click(sender, e) ' Clear the screen fields.
        End If
    Else
        MessageString = "No sales data to summarize."
        MessageBox.Show(MessageString, "Catherine's Catering Summary",
            MessageBoxButtons.OK, MessageBoxIcon.Information)
    End If
End Sub

Private Sub ExitButton_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles ExitButton.Click
    'Terminate the projects

    Me.Close()
End Sub

End Class

```