

Appendix

9.1 Code for Clock

Public Class Form1

```
Private Sub TabPage1_Click(ByVal sender As System.Object, ByVal e As  
System.EventArgs) Handles TabPage1.Click  
End Sub
```

```
Private Sub Form1_Load(ByVal sender As System.Object, ByVal e As  
System.EventArgs) Handles MyBase.Load  
    RadioButton1.Checked = True  
    Timer1.Start()  
End Sub
```

```
Private Sub Label5_Click(ByVal sender As System.Object, ByVal e As  
System.EventArgs) Handles Label5.Click  
  
End Sub
```

```
Private Sub TextBox1_TextChanged(ByVal sender As System.Object, ByVal e  
As System.EventArgs) Handles TextBox1.TextChanged  
  
End Sub
```

```
Private Sub Label7_Click(ByVal sender As System.Object, ByVal e As  
System.EventArgs) Handles Label7.Click  
  
End Sub
```

```
Private Sub Label6_Click(ByVal sender As System.Object, ByVal e As  
System.EventArgs) Handles Label6.Click
```

```
End Sub
```

```
Private Sub Button1_Click(ByVal sender As System.Object, ByVal e As  
System.EventArgs) Handles Button1.Click
```

```
    Timer2.Start()
```

```
    Label2.Text = TextBox1.Text
```

```
    Label7.Text = "Alarm is working"
```

```
    Label7.ForeColor = Color.Green
```

```
End Sub
```

```
Private Sub Button2_Click(ByVal sender As System.Object, ByVal e As  
System.EventArgs) Handles Button2.Click
```

```
    Timer2.Stop()
```

```
    Label7.Text = "Alarm has stopped "
```

```
    Label7.ForeColor = Color.Red
```

```
End Sub
```

```
Private Sub GroupBox1_Enter(ByVal sender As System.Object, ByVal e As  
System.EventArgs) Handles GroupBox1.Enter
```

```
End Sub
```

```
Private Sub RadioButton1_CheckedChanged(ByVal sender As System.Object,  
ByVal e As System.EventArgs) Handles RadioButton1.CheckedChanged
```

```
End Sub
```

```
Private Sub RadioButton2_CheckedChanged(ByVal sender As System.Object,
ByVal e As System.EventArgs) Handles RadioButton2.CheckedChanged
```

```
End Sub
```

```
Private Sub Timer1_Tick(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Timer1.Tick
```

```
Label1.Text = TimeOfDay
```

```
Label2.Text = TextBox1.Text
```

```
End Sub
```

```
Private Sub Timer2_Tick(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Timer2.Tick
```

```
If Label2.Text = Label1.Text Then
```

```
Label8.Text = Label2.Text
```

```
End If
```

```
If Label8.Text = Label2.Text And RadioButton1.Checked = True Then
```

```
Timer2.Stop()
```

```
Label7.Text = "Alarm has stopped "
```

```
Label7.ForeColor = Color.Red
```

```
MessageBox.Show(TextBox2.Text)
```

```
ElseIf Label8.Text = Label2.Text And RadioButton2.Checked = True Then
```

```
Console.Beep()
```

```
End If
```

```
End Sub
```

```
Private Sub TextBox2_Click(ByVal sender As Object, ByVal e As
System.EventArgs) Handles TextBox2.Click
```

```
TextBox2.Text = Nothing
```

```
End Sub
```

```
Private Sub TextBox2_LostFocus(ByVal sender As Object, ByVal e As  
System.EventArgs) Handles TextBox2.LostFocus
```

```
    If TextBox2.Text = Nothing Then
```

```
        TextBox2.Text = "Time is up"
```

```
    End If
```

```
End Sub
```

```
Private Sub TabPage2_Click(ByVal sender As System.Object, ByVal e As  
System.EventArgs) Handles TabPage2.Click
```

```
    If ComboBox1.SelectedIndex = 0 Then
```

```
        txtResult.Text = Val(txtNum1.Text) + Val(txtNum2.Text)
```

```
    End If
```

```
    If ComboBox1.SelectedIndex = 1 Then
```

```
        txtResult.Text = Val(txtNum1.Text) - Val(txtNum2.Text)
```

```
    End If
```

```
    If ComboBox1.SelectedIndex = 2 Then
```

```
        txtResult.Text = Val(txtNum1.Text) * Val(txtNum2.Text)
```

```
    End If
```

```
    If ComboBox1.SelectedIndex = 3 Then
```

```
        txtResult.Text = Val(txtNum1.Text) / Val(txtNum2.Text)
```

```
    End If
```

```
End Sub
```

```
Private Sub TextBox3_TextChanged(ByVal sender As System.Object, ByVal e  
As System.EventArgs) Handles txtNum1.TextChanged
```

```
End Sub
```

```
Private Sub Label10_Click(ByVal sender As System.Object, ByVal e As  
System.EventArgs) Handles Label10.Click
```

End Sub

Private Sub Label9_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Label9.Click

End Sub

Private Sub TextBox4_TextChanged(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles txtNum2.TextChanged

End Sub

Private Sub Label11_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Label11.Click

End Sub

Private Sub TextBox5_TextChanged(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles txtResult.TextChanged

End Sub

Private Sub Label12_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Label12.Click

End Sub

Private Sub Button3_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Calculate.Click

End Sub

End Class

9.2- Code for Clipboard

Public Class Form1

Private Sub NewToolStripMenuItem_Click(ByVal sender As System.Object,
ByVal e As System.EventArgs) Handles NewToolStripMenuItem.Click

RichTextBox1.Text = ""

End Sub

Private Sub ExitToolStripMenuItem_Click(ByVal sender As System.Object,
ByVal e As System.EventArgs) Handles ExitToolStripMenuItem.Click

End

End Sub

Private Sub UndoToolStripMenuItem_Click(ByVal sender As System.Object,
ByVal e As System.EventArgs) Handles UndoToolStripMenuItem.Click

RichTextBox1.Undo()

End Sub

Private Sub RedoToolStripMenuItem_Click(ByVal sender As System.Object,
ByVal e As System.EventArgs) Handles RedoToolStripMenuItem.Click

RichTextBox1.Redo()

End Sub

Private Sub CutToolStripMenuItem_Click(ByVal sender As System.Object,
ByVal e As System.EventArgs) Handles CutToolStripMenuItem.Click

RichTextBox1.Cut()

End Sub

```
Private Sub CopyToolStripMenuItem_Click(ByVal sender As System.Object,
ByVal e As System.EventArgs) Handles CopyToolStripMenuItem.Click
    RichTextBox1.Copy()
End Sub
```

```
Private Sub PasteToolStripMenuItem_Click(ByVal sender As System.Object,
ByVal e As System.EventArgs) Handles PasteToolStripMenuItem.Click
    RichTextBox1.Paste()
End Sub
```

```
Private Sub SelectAllToolStripMenuItem_Click(ByVal sender As
System.Object, ByVal e As System.EventArgs) Handles
SelectAllToolStripMenuItem.Click
    RichTextBox1.SelectAll()
End Sub
```

```
Private Sub SaveToolStripMenuItem_Click(ByVal sender As System.Object,
ByVal e As System.EventArgs) Handles SaveToolStripMenuItem.Click
    On Error GoTo E
    SaveFileDialog1.ShowDialog()
    Dim writeit As New System.IO.StreamWriter(SaveFileDialog1.FileName)
    writeit.Write(RichTextBox1.Text)
    writeit.Close()
    Exit Sub
```

E:

End Sub

```
Private Sub OpenToolStripMenuItem_Click(ByVal sender As System.Object,
ByVal e As System.EventArgs) Handles OpenToolStripMenuItem.Click
    On Error GoTo E
    OpenFileDialog1.ShowDialog()
    Dim readit As New System.IO.StreamReader(OpenFileDialog1.FileName)
    RichTextBox1.Text = readit.ReadToEnd
    readit.Close()
    Exit Sub
E:
End Sub
```

```
Private Sub CustomizeToolStripMenuItem_Click(ByVal sender As
System.Object, ByVal e As System.EventArgs) Handles
CustomizeToolStripMenuItem.Click
    Customaddition.Show()
End Sub
```

```
Private Sub AboutToolStripMenuItem_Click(ByVal sender As System.Object,
ByVal e As System.EventArgs) Handles AboutToolStripMenuItem.Click
    AboutBox1.Show()
End Sub
```

```
Private Sub ClearToolStripMenuItem_Click(ByVal sender As System.Object,
ByVal e As System.EventArgs) Handles ClearToolStripMenuItem.Click
    RichTextBox1.Clear()
End Sub
```

```
Private Sub FontToolStripMenuItem_Click(ByVal sender As System.Object,
ByVal e As System.EventArgs) Handles FontToolStripMenuItem.Click
    Try
        Dim dlg As ColorDialog = New ColorDialog
```



```
        dlg.Color = RichTextBox1.ForeColor
    If dlg.ShowDialog = System.Windows.Forms.DialogResult.OK Then
        RichTextBox1.ForeColor = dlg.Color
    End If
Catch ex As Exception
End Try
End Sub

Private Sub MenuStrip1_ItemClicked(ByVal sender As System.Object, ByVal e As System.Windows.Forms.ToolStripItemClickedEventArgs) Handles MenuStrip1.ItemClicked

End Sub
End Class
```

9.3- Code for Calculator

```
Private Sub Button3_Click_1(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Button3.Click
    TextBox3.Clear()
    Label13.Text = ""
    Label14.Text = ""
    Label15.Text = ""
End Sub

Private Sub Button8_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Button8.Click
    Dim sqrt As Double
    sqrt = Convert.ToDouble(TextBox3.Text)
```

```
TextBox3.Text = Convert.ToString(Math.Sqrt(sqrt))
```

```
End Sub
```

```
Private Sub TextBox3_TextChanged_1(ByVal sender As System.Object,  
ByVal e As System.EventArgs) Handles TextBox3.TextChanged
```

```
End Sub
```

```
Private Sub Button6_Click(ByVal sender As System.Object, ByVal e As  
System.EventArgs) Handles Button6.Click
```

```
Dim numb As Double
```

```
numb = Convert.ToDouble(TextBox3.Text)
```

```
Dim nu As Double
```

```
nu = numb - numb - numb
```

```
TextBox3.Text = Convert.ToString(nu)
```

```
End Sub
```

```
Private Sub Button27_Click(ByVal sender As System.Object, ByVal e As  
System.EventArgs) Handles Button27.Click
```

```
TextBox3.AppendText(0)
```

```
End Sub
```

```
Private Sub Button22_Click(ByVal sender As System.Object, ByVal e As  
System.EventArgs) Handles Button22.Click
```

```
TextBox3.AppendText(1)
```

```
End Sub
```

```
Private Sub Button18_Click(ByVal sender As System.Object, ByVal e As  
System.EventArgs) Handles Button18.Click
```

```
TextBox3.AppendText(2)
```

End Sub

Private Sub Button20_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Button20.Click

 TextBox3.AppendText(3)

End Sub

Private Sub Button17_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Button17.Click

 TextBox3.AppendText(4)

End Sub

Private Sub Button4_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Button4.Click

 TextBox3.AppendText(5)

End Sub

Private Sub Button15_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Button15.Click

 TextBox3.AppendText(6)

End Sub

Private Sub Button13_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Button13.Click

 TextBox3.AppendText(7)

End Sub

Private Sub Button9_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Button9.Click

 TextBox3.AppendText(8)

End Sub

```
Private Sub Button11_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button11.Click
    TextBox3.AppendText(9)
End Sub
```

```
Private Sub Button23_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button23.Click
    TextBox3.AppendText(".")
End Sub
```

```
Private Sub Button5_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button5.Click
    Label13.Text = TextBox3.Text
    Label14.Text = "+"
    TextBox3.Clear()
End Sub
```

```
Private Sub Button12_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button12.Click
    Label13.Text = TextBox3.Text
    Label14.Text = "-"
    TextBox3.Clear()
End Sub
```

```
Private Sub Button16_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button16.Click
    Label13.Text = TextBox3.Text
    Label14.Text = "*"
    TextBox3.Clear()
End Sub
```

```
Private Sub Button21_Click(ByVal sender As System.Object, ByVal e As  
System.EventArgs) Handles Button21.Click
```

```
    Label13.Text = TextBox3.Text
```

```
    Label14.Text = "/"
```

```
    TextBox3.Clear()
```

```
End Sub
```

```
Private Sub Button24_Click(ByVal sender As System.Object, ByVal e As  
System.EventArgs) Handles Button24.Click
```

```
    Label15.Text = TextBox3.Text
```

```
    Dim sign As Char
```

```
    sign = Label14.Text
```

```
    Dim n1 As Double
```

```
    n1 = Convert.ToDouble(Label13.Text)
```

```
    Dim n2 As Double
```

```
    n2 = Convert.ToDouble(Label15.Text)
```

```
    Dim n3 As Double
```

```
    Select Case (sign)
```

```
        Case "+"
```

```
            n3 = n1 + n2
```

```
        Case "-"
```

```
            n3 = n1 - n2
```

```
        Case "*"
```

```
            n3 = n1 * n2
```

```
        Case "/"
```

```
            n3 = n1 / n2
```

```
    End Select
```

```
    TextBox3.Text = Convert.ToString(n3)
```

```
End Sub
```

```
Private Sub TabPage4_Click(ByVal sender As System.Object, ByVal e As  
System.EventArgs) Handles TabPage4.Click
```

```
End Sub
```

9.4 Currency Convertor

```
Imports System.IO
```

```
Imports System.Text.RegularExpressions
```

```
Private Sub doCalculate()
```

```
    ' Need the scraping
```

```
    Dim Str As System.IO.Stream
```

```
    Dim srRead As System.IO.StreamReader
```

```
    Dim strAmount As String
```

```
    strAmount = currencyAmount.Text
```

```
    ' Get values from the textboxes
```

```
    Dim strFrom() As String = Split(currencyFrom.Text, " - ")
```

```
    Dim strTo() As String = Split(currencyTo.Text, " - ")
```

```
    ' Web fetching variables
```

```
    Dim req As System.Net.WebRequest =  
System.Net.WebRequest.Create("http://www.xe.com/ucc/convert.cgi?Amount=" +  
strAmount + "&From=" + strFrom(1) + "&To=" + strTo(1) +  
"YER&image.x=47&image.y=19&image=Submit")
```

```
    Dim resp As System.Net.WebResponse = req.GetResponse
```

```
    Str = resp.GetResponseStream
```

```
srRead = New System.IO.StreamReader(Str)

' Match the response
Try
    Dim myMatches As MatchCollection
    Dim myRegExp As New Regex("[0-9]+\.[0-9]+ " + strTo(1) + ")")

    myMatches = myRegExp.Matches(srRead.ReadToEnd)

    ' Search for all the words in the string
    Dim sucessfulMatch As Match
    For Each sucessfulMatch In myMatches
        mainText.Text = sucessfulMatch.Value
    Next
Catch ex As Exception
    mainText.Text = "Unable to connect to XE"
Finally
    ' Close the streams
    srRead.close()
    Str.Close()
End Try

convertToLabel.Text = strAmount + " " + strFrom(0) + " Converts To: "
End Sub

Private Sub convertButton_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles convertButton.Click
    ' Check if the currency is a number
    If Not IsNumeric(currencyAmount.Text) Then
        MsgBox("Please enter a valid amount!", MsgBoxStyle.Information,
"Invalid Input")
        currencyAmount.Focus()
```

```
        Return
    End If

    doCalculate()
End Sub

Private Sub Form1_Load(ByVal sender As Object, ByVal e As
System.EventArgs) Handles Me.Load
    currencyFrom.selectedIndex = 0
    currencyTo.SelectedIndex = 1
End Sub
End Class
```