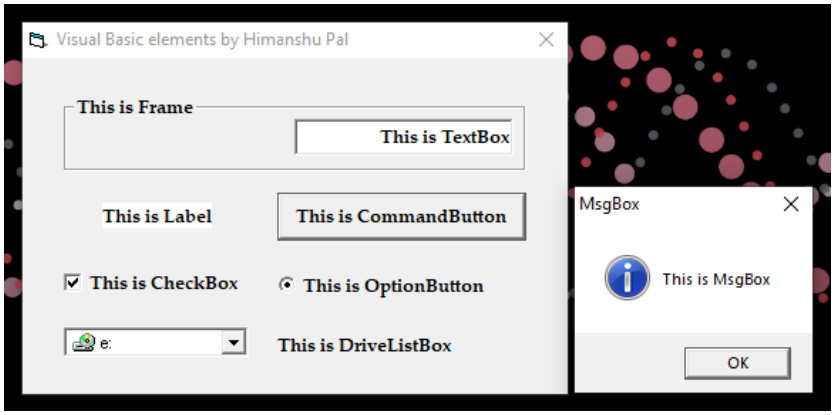
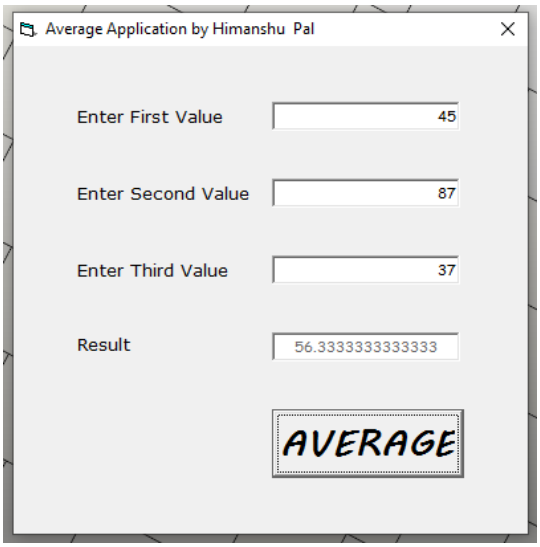
1] Program to display various components of Visual Basic.

```
Private Sub Command1_Click()
    MsgBox "This is MsgBox", vbInformation, "MsgBox"
End Sub

Private Sub Form_Load()
    Frame1.Caption = "This is Frame"
    Text1.Text = "This is TextBox"
    Label1.Caption = "This is Label"
    Command1.Caption = "This is CommandButton"
    Check1.Caption = "This is CheckBox"
    Option1.Caption = "This is OptionButton"
End Sub
```



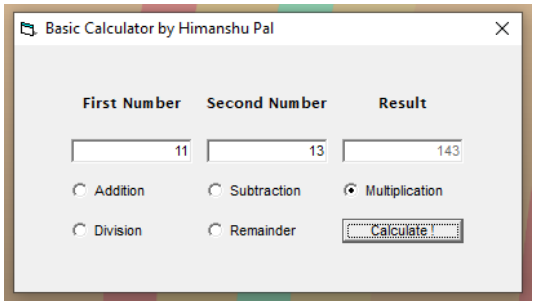
2] Program to get Average of Three Numbers.

```
Dim res As Integer
Private Sub button_Click()
    res = Val(val1.Text) + Val(val2.Text) + Val(val3.Text)
    result.Text = res / 3
End Sub
```



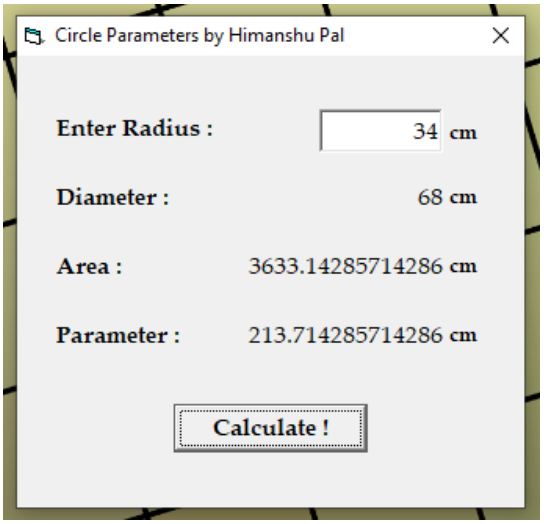
3] Program of Simple Calculator using option selection.

```
Private Sub button_Click()
    If Addition.Value = True Then
        ResultValue.Text = Val(FirstNumberValue.Text) +
Val(SecondNumberValue.Text)
    ElseIf Subtraction.Value = True Then
        ResultValue.Text = Val(FirstNumberValue.Text) -
Val(SecondNumberValue.Text)
    ElseIf Multiplication.Value = True Then
        ResultValue.Text = Val(FirstNumberValue.Text) *
Val(SecondNumberValue.Text)
    ElseIf Division.Value = True Then
        ResultValue.Text = Val(FirstNumberValue.Text) /
Val(SecondNumberValue.Text)
    ElseIf Remainder.Value = True Then
        ResultValue.Text = Val(FirstNumberValue.Text) Mod
Val(SecondNumberValue.Text)
    End If
End Sub
```



4] Program that takes radius of a Circle from user & prints Area, Diameter & Parameter.

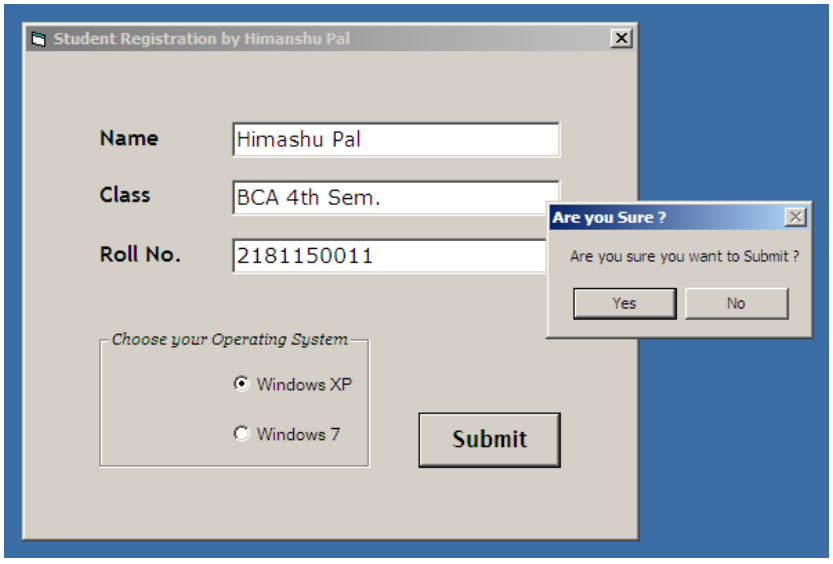
```
Dim Rad As Integer
Private Sub button_Click()
    If IsNumeric(RadiusField.Text) Then
        Rad = Int(RadiusField.Text)
        DiameterField.Caption = Rad * 2
        ParameterField.Caption = 2 * (22 / 7) * Rad
        AreaField.Caption = (22 / 7) * (Rad * Rad)
        cmArea.Visible = True
        cmDiameter.Visible = True
        cmParameter.Visible = True
    Else: MsgBox "Radius must be number.", vbCritical, "Error !"
    End If
End Sub
```



5] Program to Submit user details & display it on another form.

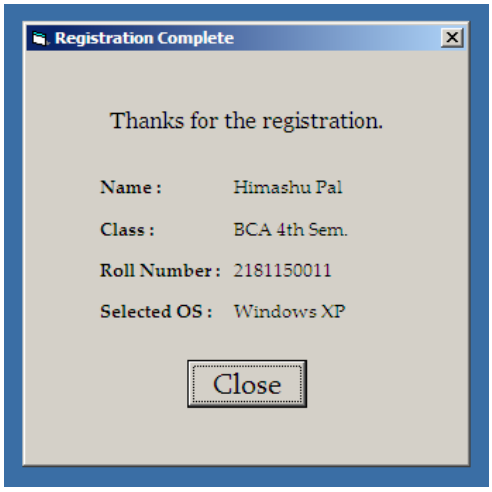
⇨ **FORM A**

```
Public StName, Class, OS As String
Public RollNumber, res As Integer
Private Sub ButtonSubmit_Click()
    StName = NameField.Text
    Class = ClassField.Text
    If IsNumeric(RollField.Text) Then
        RollNumber = Int(RollField.Text)
        If OptionXP.Value = True Then
            OS = "Windows XP"
        Else: OS = "Windows 7"
        End If
     res = MsgBox("Are you sure you want to Submit ?", vbYesNo, "Are you
Sure ?")
         If res = 6 Then
        Unload Me
        Thanks.Show
        End If
    Else: MsgBox "Roll Number must be a Number.", vbCritical, "Error !"
    End If
End Sub
```



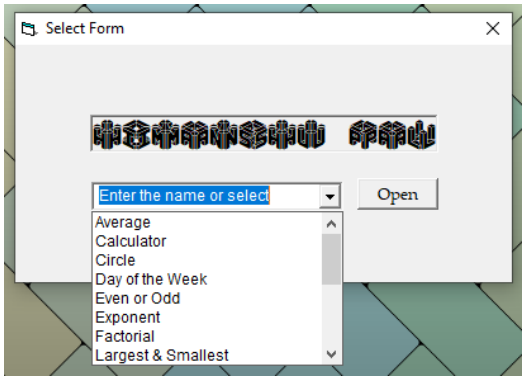
⇨ **FORM B**

```
Private Sub Form_Load()
    SubName.Caption = Details.StName
    Class.Caption = Details.Class
    RollNumber.Caption = Details.RollNumber
    OS.Caption = Details.OS
End Sub
Private Sub Close_Click()
    Unload Me
End Sub
```



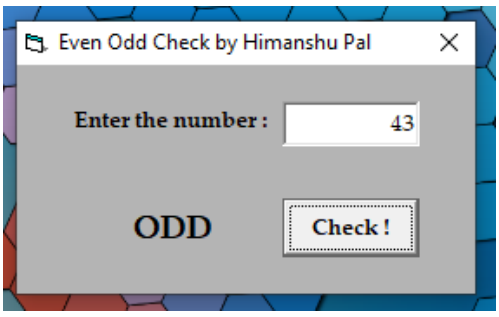
6] Program that serves as an entry point to other programs using combo box selection.

```
Dim sel As String
Private Sub Form_Load()
    list.AddItem "Average"
    list.AddItem "Record"
    list.AddItem "Stationary"
    list.AddItem "Calculator"
End Sub
Private Sub button_Click()
    Select Case list
        Case "Average"
            Unload Me Average.Show
        Case "Record"
            Unload Me Details.Show
        Case "Stationary"
            Unload Me Stationary.Show
        Case "Calculator"
            Unload Me Calculator.Show
    End Select
End Sub
```



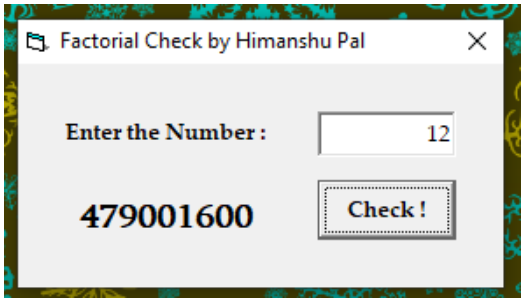
7] Program to check whether a given number is even or odd.

```
Private Sub button_Click()
    If (Text1.Text Mod 2) = 0 Then
        Label2.Caption = "EVEN"
    Else: Label2.Caption = "ODD"
    End If
End Sub
```



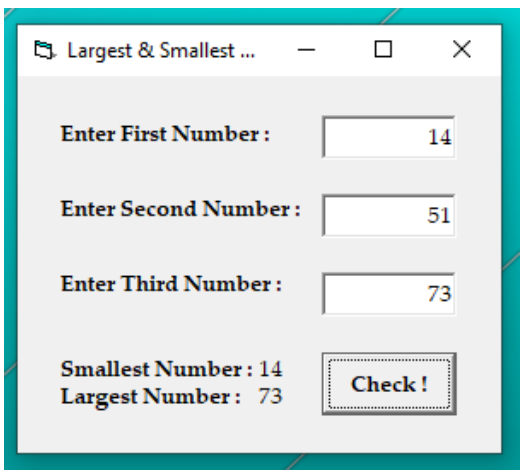
8] Program to find Factorial of a given number.

```
Private Sub button_Click()
    Dim fact As Long
    fact = 1
    For x = 1 To Val(Text1.Text)
        fact = fact * x
    Next x
    Label2.Caption = fact
End Sub
```



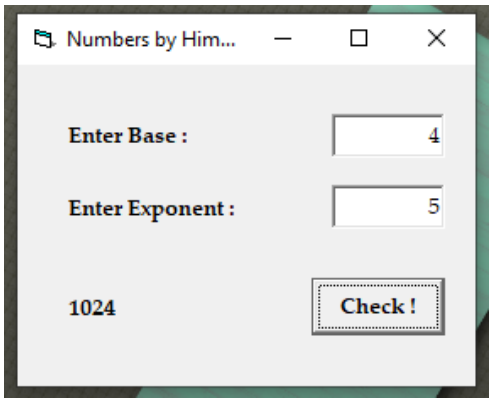
9] Program to find largest & smallest of three given numbers.

```
Private Sub buttton_Click()
Dim Smallest, Largest As Integer
    If Val(Text1.Text) > Val(Text2.Text) And Val(Text1.Text) >
Val(Text3.Text) Then
        Largest = Text1.Text
    ElseIf Val(Text2.Text) > Val(Text3.Text) And Val(Text2.Text) >
Val(Text1.Text) Then
        Largest = Text2.Text
    ElseIf Val(Text3.Text) > Val(Text1.Text) And Val(Text3.Text) >
Val(Text2.Text) Then
        Largest = Text3.Text
    End If

    If Val(Text1.Text) < Val(Text2.Text) And Val(Text1.Text) <
Val(Text3.Text) Then
        Smallest = Text1.Text
    ElseIf Val(Text2.Text) < Val(Text3.Text) And Val(Text2.Text) <
Val(Text1.Text) Then
        Smallest = Text2.Text
    ElseIf Val(Text3.Text) < Val(Text1.Text) And Val(Text3.Text) <
Val(Text2.Text) Then
        Smallest = Text3.Text
    End If

    Label7.Caption = Smallest
    Label8.Caption = Largest
End Sub
```



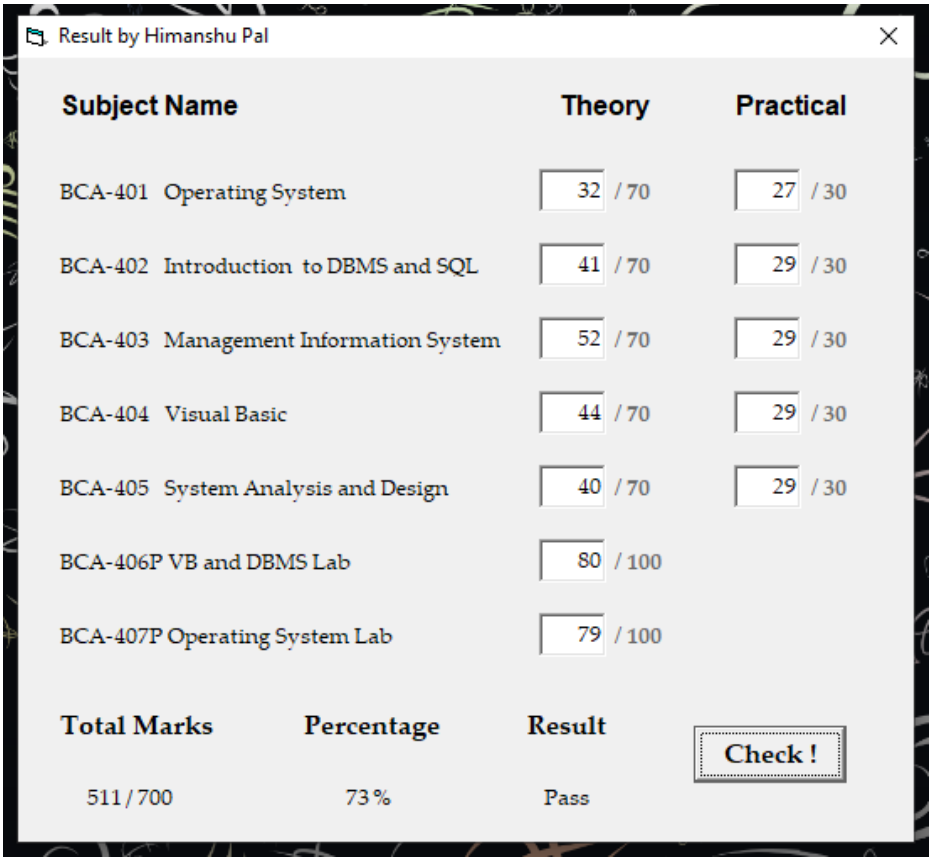
10] Program that raise number to a given exponent.

```
Private Sub button_Click()
    Label3.Caption = Val(Text1.Text) ^ Val(Text2.Text)
End Sub
```



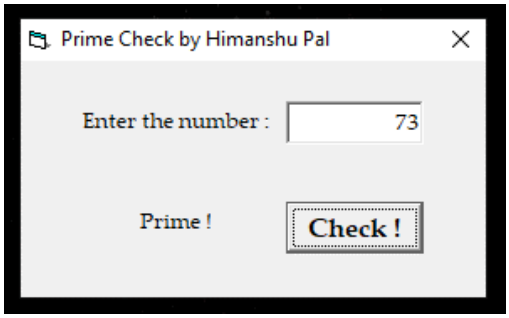
11] Program that takes marks from user & prints total marks, percentage & whether pass or fail.

```
Dim s1, s2, s3, s4, s5, res, per As Integer
Private Sub button_Click()
    s1 = Val(SubFirstTheory.Text) + Val(SubFirstLab.Text)
    s2 = Val(SubSecondTheory.Text) + Val(SubSecondLab.Text)
    s3 = Val(SubThirdTheory.Text) + Val(SubThirdLab.Text)
    s4 = Val(SubFourthTheory.Text) + Val(SubFourthLab.Text)
    s5 = Val(SubFifthTheory.Text) + Val(SubFifthLab.Text)
    res = Val(s1) + Val(s2) + Val(s3) + Val(s4) + Val(s5) +
Val(LabFirstTheory.Text) + Val(LabSecondTheory.Text)
    per = (res * 100) / 700
    If per > 40 Then
        Final.Caption = "Pass"
    Else: Final.Caption = "Fail"
    End If
    RM.Caption = res
    RP.Caption = per
End Sub
```



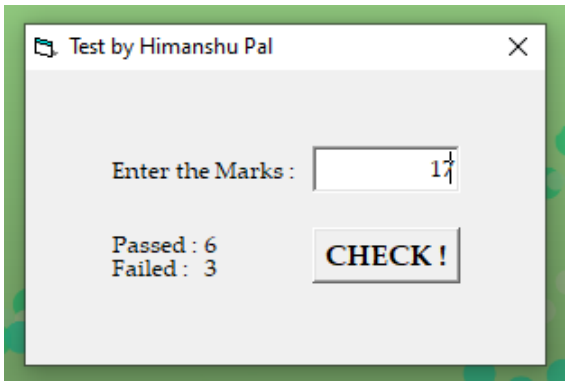
12] Program to check whether a number is prime or not.

```
Private Sub button_Click()
    If IsNumeric(data.Text) Then
        a = Val(data.Text)
        For x = 1 To Int(a / 2)
            If a Mod x = 0 Then
                output.Caption = "Not Prime !"
            Else: output.Caption = "Prime !"
            End If
        Next x
    Else: MsgBox "Must be a Number.", vbCritical, "Error !"
    End If
End Sub
```



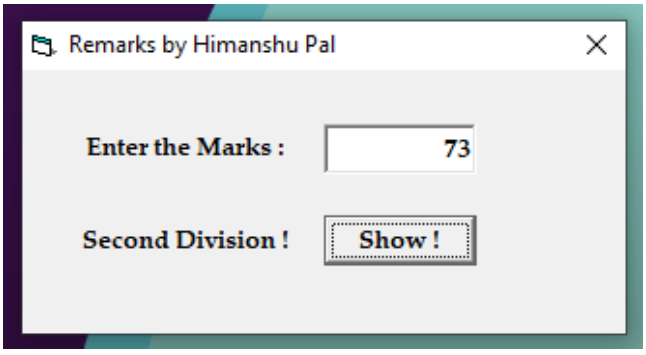
13] Program to check number of passed & failed students among any number of students.

```
Dim p, f As Single
Private Sub button_Click()
    If IsNumeric(MarksField.Text) Then
        If Int(MarksField.Text) > 37 Then
            p = p + 1
        Else: f = f + 1
        End If
    Else: MsgBox "No grades allowed.", vbCritical, "Error !"
    End If
    MarksField.Text = ""
    Pass.Caption = p
    Fail.Caption = f
End Sub
```



14] Program to provide remarks given the marks of the student.

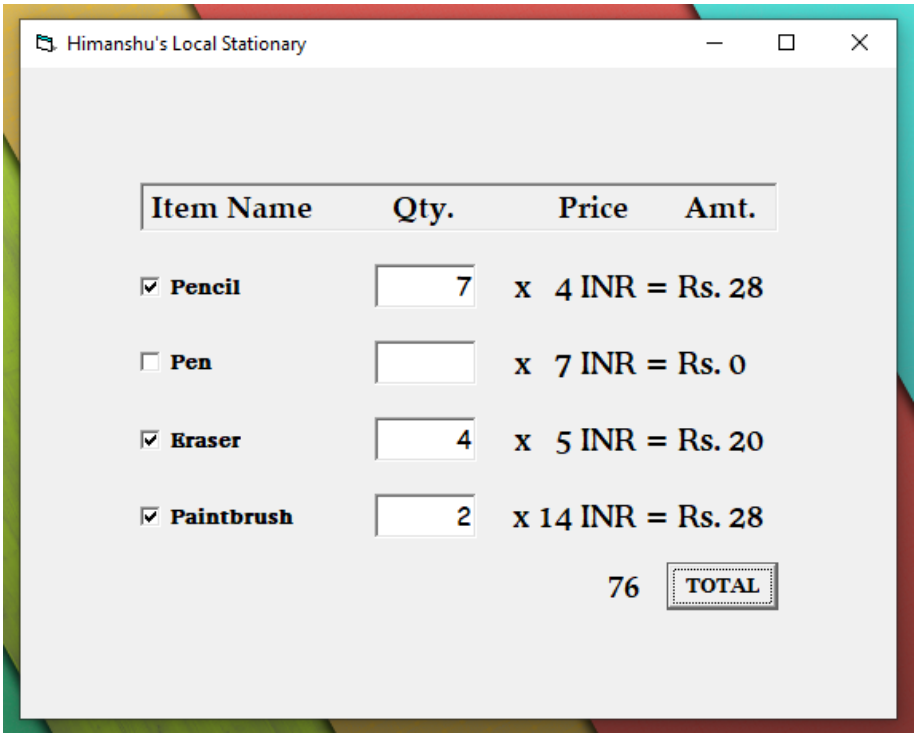
```
Private Sub button_Click()
    If IsNumeric(Text1.Text) Then
        Select Case Int(Text1.Text)
            Case 0 To 27
                Label2.Caption = "Pathetic !"
            Case 28 To 37
                Label2.Caption = "Passed !"
            Case 38 To 59
                Label2.Caption = "Third Division !"
            Case 60 To 84
                Label2.Caption = "Second Division !"
            Case 85 To 100
                Label2.Caption = "First Division !"
            Case Else
                Label2.Caption = "Un-Possible !"
            End Select
    Else: MsgBox "No grades allowed.", vbCritical, "Error !"
    End If
End Sub
```



15] Program representing stationary shop that takes price, quantity & provide total bill amount.

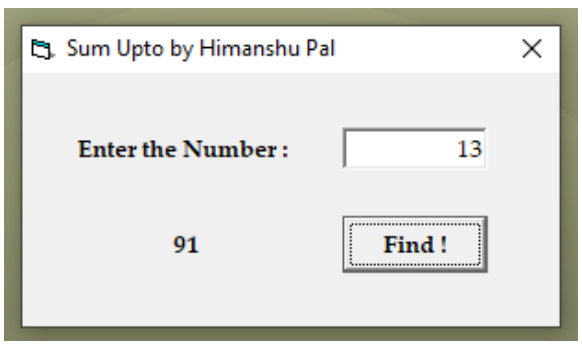
```
Private Sub PaintBrushQty_Change()
    PaintBrushCost.Caption = Val(PaintBrushQty) * 14
End Sub

Private Sub PencilQty_Change()
    PencilCost.Caption = Val(PencilQty) * 4
End Sub

Private Sub PenQty_Change()
    PenCost.Caption = Val(PenQty) * 7
End Sub

Private Sub EraserQty_Change()
    EraserCost.Caption = Val(EraserQty) * 5
End Sub

Private Sub button_Click()
    Output.Caption = Int(PencilCost.Caption) + Int(PenCost.Caption) +
Int(EraserCost.Caption) + Int(PaintBrushCost.Caption)
End Sub

Private Sub Pencil_click()
    If Pencil.Value = 1 Then
        PencilQty.Enabled = True
    ElseIf Pencil.Value = 0 Then
        PencilQty.Text = ""
        PencilQty.Enabled = False
    End If
End Sub

Private Sub Pen_click()
    If Pen.Value = 1 Then
        PenQty.Enabled = True
    ElseIf Pen.Value = 0 Then
        PenQty.Text = ""
        PenQty.Enabled = False
    End If
End Sub

Private Sub Eraser_click()
    If Eraser.Value = 1 Then
        EraserQty.Enabled = True
    ElseIf Eraser.Value = 0 Then
```

```
        EraserQty.Text = ""
        EraserQty.Enabled = False
    End If
End Sub
Private Sub PaintBrush_click()
    If PaintBrush.Value = 1 Then
        PaintBrushQty.Enabled = True
    ElseIf PaintBrush.Value = 0 Then
        PaintBrushQty.Text = ""
        PaintBrushQty.Enabled = False
    End If
End Sub
```



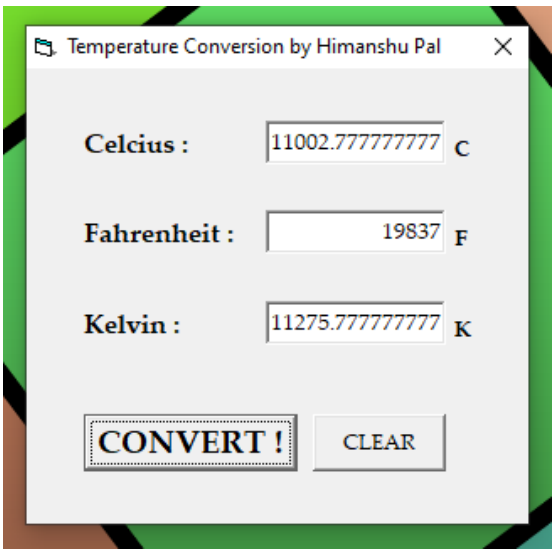
16] Program to find sum of all numbers up to given natural number.

```
Private Sub button_Click()
    Dim sum As Long
    For x = 1 To Val(Text1.Text)
        sum = sum + x
    Next x
    Label2.Caption = sum
End Sub
```



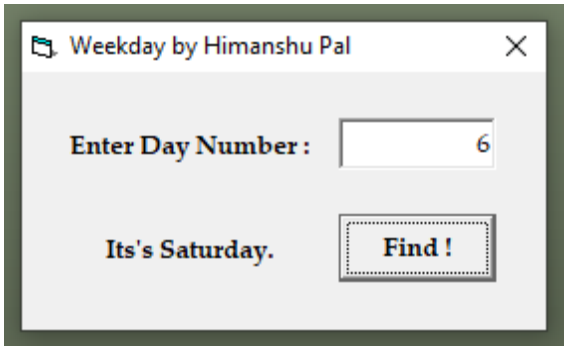
17] Program to convert temperatures among different units.

```
Dim K, C, f As Integer
Private Sub button_Click()
    If CelciusField.Text = "" And FahField.Text = "" Then
        If IsNumeric(KelvinField.Text) Then
             K = Int(KelvinField.Text)
             FahField.Text = ((9 / 5) * (K - 273)) + 32
             CelciusField.Text = K - 273
        Else: MsgBox "Temperature must be number.", vbCritical, "Error !"
        End If
    ElseIf KelvinField.Text = "" And FahField.Text = "" Then
        If IsNumeric(CelciusField.Text) Then
             C = Int(CelciusField.Text)
             FahField.Text = ((9 / 5) * C) + 32
             KelvinField.Text = C + 273
        Else: MsgBox "Temperature must be number.", vbCritical, "Error !"
        End If
    ElseIf KelvinField.Text = "" And CelciusField.Text = "" Then
        If IsNumeric(FahField.Text) Then
             f = Int(FahField.Text)
             KelvinField.Text = (5 / 9 * (f - 32)) + 273
             CelciusField.Text = (5 / 9) * (f - 32)
        Else: MsgBox "Temperature must be number.", vbCritical, "Error !"
        End If
    End If
End Sub
Private Sub clear_Click()
    FahField.Text = ""
    KelvinField.Text = ""
    CelciusField.Text = ""
End Sub
```



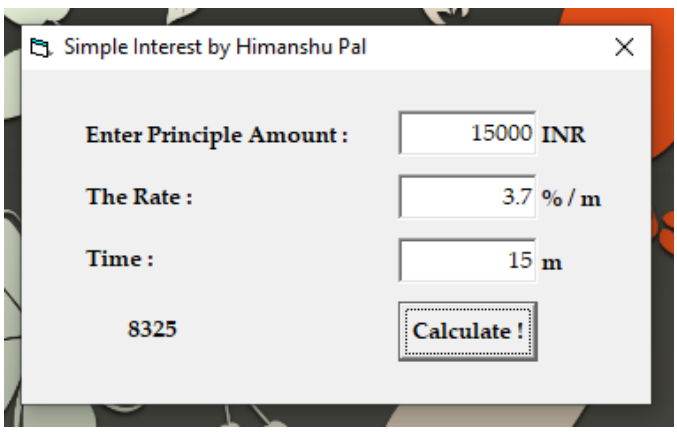
18] Program to get the name of the day by providing day number.

```
Private Sub Command1_Click()
    If IsNumeric(Text1.Text) Then
        Select Case Text1.Text
            Case 1
                Label2.Caption = "It's Monday."
            Case 2
                Label2.Caption = "It's Tuesday."
            Case 3
                Label2.Caption = "It's Wednesday."
            Case 4
                Label2.Caption = "It's Thursday."
            Case 5
                Label2.Caption = "It's Friday."
            Case 6
                Label2.Caption = "Its's Saturday."
            Case 7
                Label2.Caption = "It's Sunday."
            Case Else
        MsgBox "Week-Day must be in range of 1-7.", vbCritical, "Error !"
            End Select
    Else: MsgBox "Week-Day must be a Number.", vbCritical, "Error !"
    End If
End Sub
```



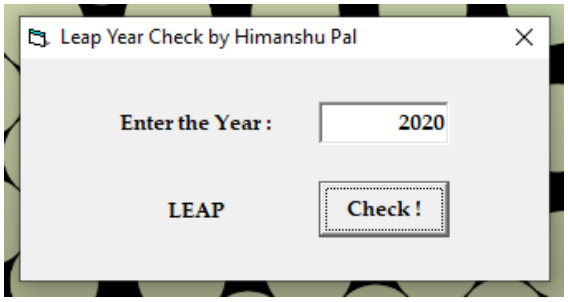
19] Program to calculate Simple Interest.

```
Private Sub button_Click()
    Label4.Caption = (Val(Text1.Text) * Val(Text2.Text) *
Val(Text3.Text)) / 100
End Sub
```



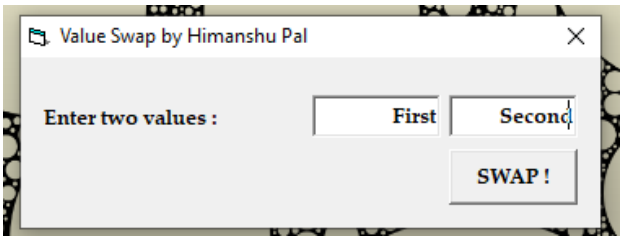
20] Program to check if a given year is Leap Year or Not.

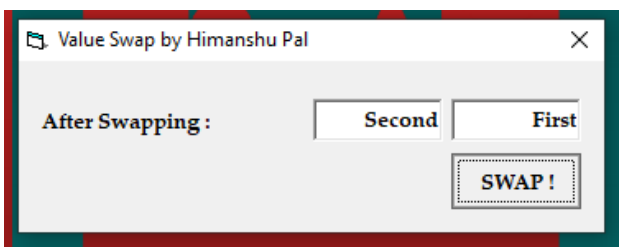
```
Private Sub button_Click()
    If Text1.Text Mod 4 = 0 Then
        Label2.Caption = "LEAP"
    Else: Label2.Caption = "NORMAL"
    End If
End Sub
```



21] Program to Swap two values entered by User.

```
Dim val1, val2, temp

Private Sub button_MouseDown(button As Integer, Shift As Integer, X As
Single, Y As Single)
    val1 = Text1.Text
    val2 = Text2.Text
    temp = val1
    val1 = val2
    val2 = temp
    Text1.Text = val1
    Text2.Text = val2
    Label1.Caption = "After Swapping :"
End Sub

Private Sub button_MouseUp(button As Integer, Shift As Integer, X As
Single, Y As Single)
    val1 = Text1.Text
    val2 = Text2.Text
    temp = val1
    val1 = val2
    val2 = temp
    Text1.Text = val1
    Text2.Text = val2
    Label1.Caption = "Initial Values :"
End Sub
```





22] Program to check if a given number is Perfect or Not.

```
Private Sub button_Click()
    Dim num, pr As Integer
    num = Val(Text1.Text)
    For X = 1 To num - 1
        If num Mod X = 0 Then
            pr = pr + X
        End If
    Next X
    If num = pr Then
        Label2.Caption = "PERFECT"
    Else: Label2.Caption = "NOT PERFECT"
    End If
End Sub
```