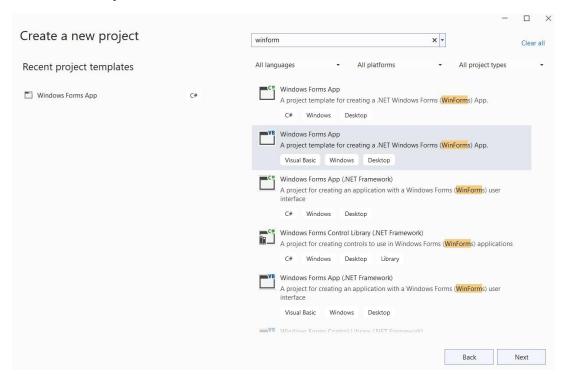
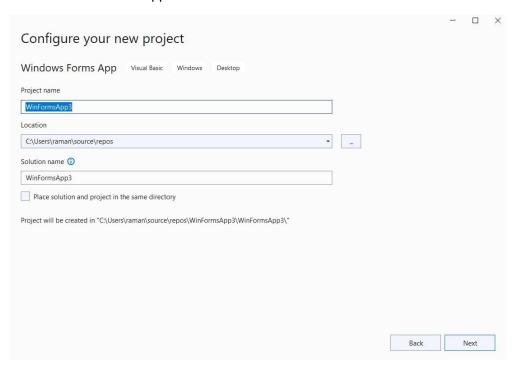
# VB.NET Graphical User Interface using Visual Studio 2022 Community Edition Handbook

## **Raman Deep Singh**

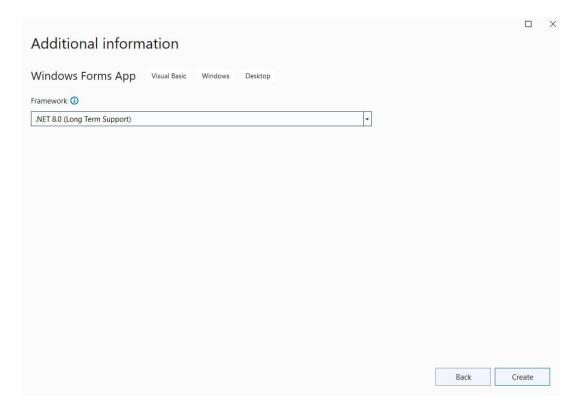
Create a new Project in Visual Studio 2022



Select Windows Form App C# and Click Next



Click Next



Click Create and New Project will be created

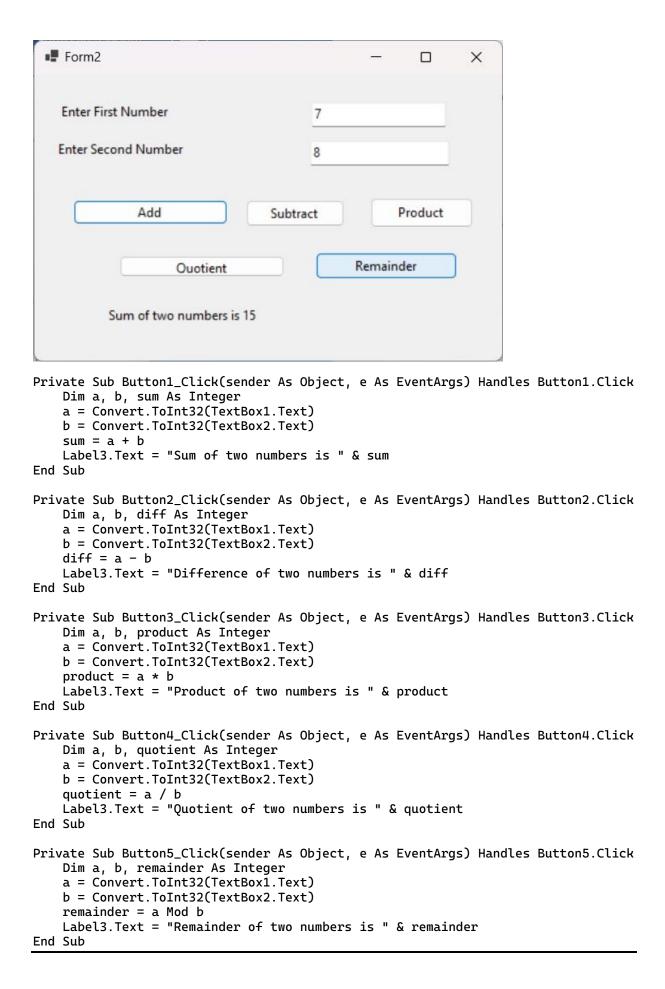
Place a new Button and Label on the form

Go to properties of Button and set Text property as "Click"

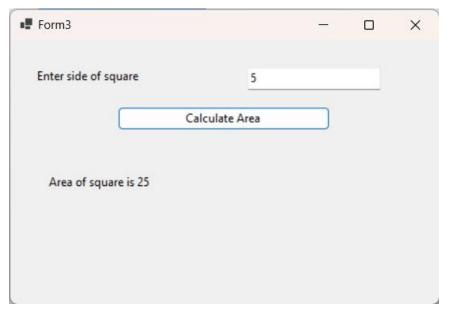


Private Sub Button1\_Click(sender As Object, e As EventArgs) Handles
Button1.Click
 Label1.Text = "Hello World"
End Sub

Program to find sum, difference, product, quotient and remainder of two numbers

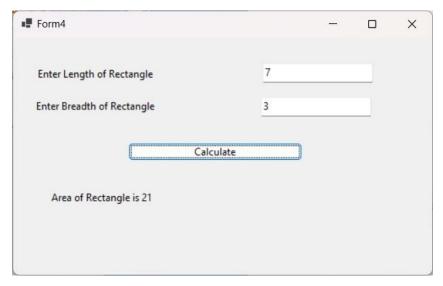


## Program to find area of square



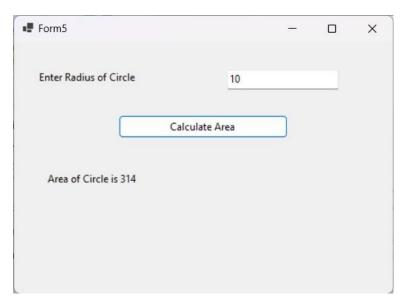
Private Sub Button1\_Click(sender As Object, e As EventArgs) Handles Button1.Click
 Dim side, area As Integer
 side = Convert.ToInt32(TextBox1.Text)
 area = side \* side
 Label2.Text = "Area of square is " & area
End Sub

#### Program to find area of rectangle



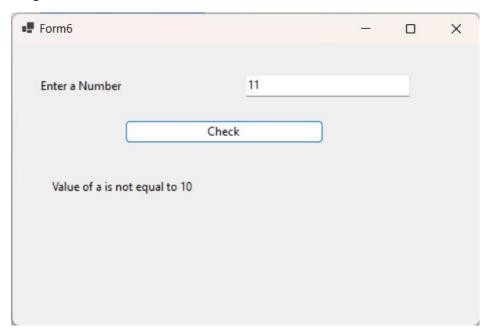
Private Sub Button1\_Click(sender As Object, e As EventArgs) Handles Button1.Click
 Dim l, b, area As Integer
 l = Convert.ToInt32(TextBox1.Text)
 b = Convert.ToInt32(TextBox2.Text)
 area = l \* b
 Label3.Text = "Area of Rectangle is " & area
End Sub

Program to find area of circle



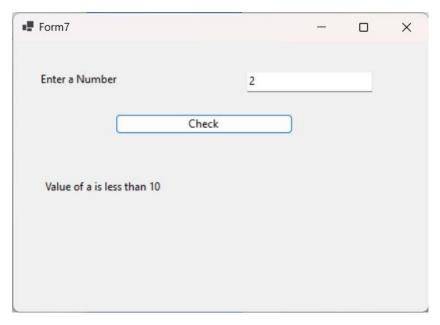
Private Sub Button1\_Click(sender As Object, e As EventArgs) Handles Button1.Click
 Dim radius, area As Double
 radius = Convert.ToDouble(TextBox1.Text)
 area = 3.14 \* radius \* radius
 Label2.Text = "Area of Circle is " & area
End Sub

#### Program to demonstrate If Else statement



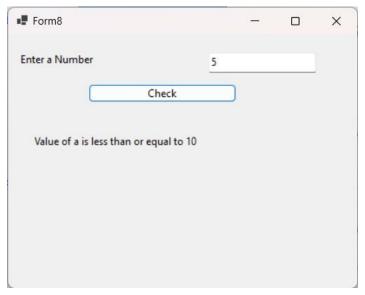
Private Sub Button1\_Click(sender As Object, e As EventArgs) Handles Button1.Click
 Dim a As Integer
 a = Convert.ToInt32(TextBox1.Text)
 If a = 10 Then
 Label2.Text = "Value of a is 10"
 Else
 Label2.Text = "Value of a is not equal to 10"
 End If
End Sub

Program to demonstrate If Else statement Relational Operator (>=)



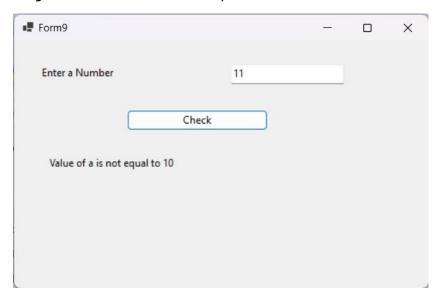
```
Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
    Dim a As Integer
    a = Convert.ToInt32(TextBox1.Text)
    If a >= 10 Then
        Label2.Text = "Value of a is greater than or equal to 10"
    Else
        Label2.Text = "Value of a is less than 10"
    End If
End Sub
```

Program to demonstrate If Else statement relational operator (<=10)



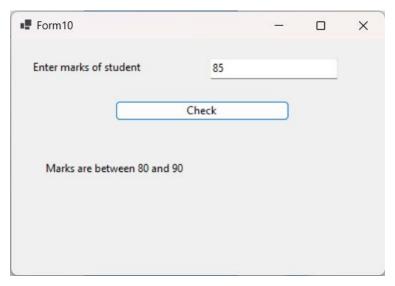
Private Sub Button1\_Click(sender As Object, e As EventArgs) Handles Button1.Click
 Dim a As Integer
 a = Convert.ToInt32(TextBox1.Text)
 If a <= 10 Then
 Label2.Text = "Value of a is less than or equal to 10"
 Else
 Label2.Text = "Value of a is greater than 10"
 End If
End Sub</pre>

Program to demonstrate Not Operator in If Else Statement



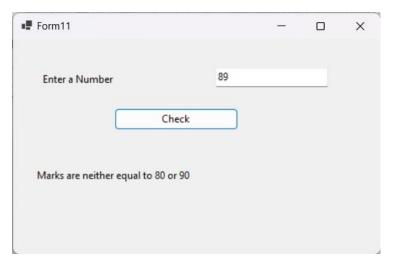
```
Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
    Dim a As Integer
    a = Convert.ToInt32(TextBox1.Text)
    If Not a = 10 Then
        Label2.Text = "Value of a is not equal to 10"
    Else
        Label2.Text = "Value of a is equal to 10"
    End If
End Sub
```

Program to demonstrate And Operator to check whether marks are between 80 and 90



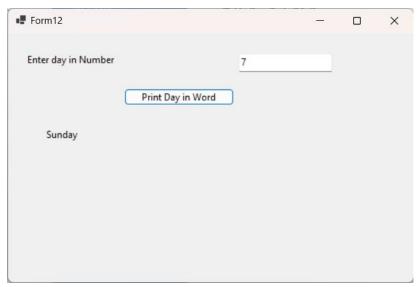
Private Sub Button1\_Click(sender As Object, e As EventArgs) Handles Button1.Click
 Dim marks As Integer
 marks = Convert.ToInt32(TextBox1.Text)
 If marks >= 80 And marks <= 90 Then
 Label2.Text = "Marks are between 80 and 90"
 Else
 Label2.Text = "Marks are not between 80 and 90"
 End If</pre>
End Sub

Program to demonstrate Or Operator Check whether number is equal to  $80\ \mathrm{or}\ 90$ 



```
Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
    Dim a As Integer
    a = Convert.ToInt32(TextBox1.Text)
    If a = 80 Or a = 90 Then
        Label2.Text = "Marks are either equal to 80 or 90"
    Else
        Label2.Text = "Marks are neither equal to 80 or 90"
    End If
End Sub
```

Program to demonstrate Select Case statement to enter day in number and print day in words



Private Sub Button1\_Click(sender As Object, e As EventArgs) Handles Button1.Click
 Dim day As Integer
 day = Convert.ToInt32(TextBox1.Text)
 Select Case day
 Case 1
 Label1.Text = "Monday"
 Case 2
 Label2.Text = "Tuesday"
 Case 3
 Label2.Text = "Wednesday"
 Case 4
 Label1.Text = "Thursday"
 Case 5

```
Label2.Text = "Friday"

Case 6
Label2.Text = "Saturday"

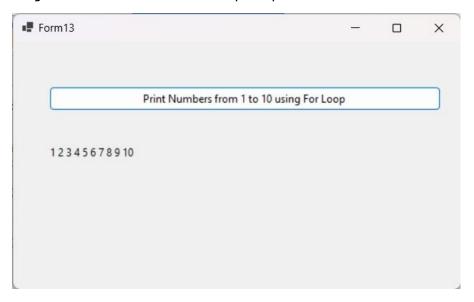
Case 7
Label2.Text = "Sunday"

Case Else
Label2.Text = "Enter a day between 1 to 7"

End Select

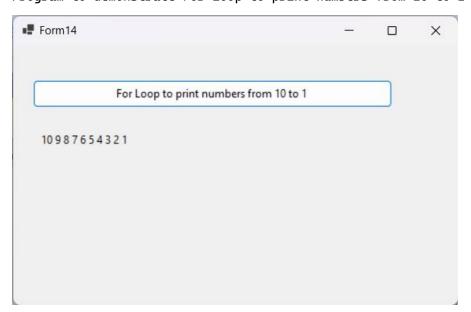
End Sub
```

Program to demonstrate For Loop to print numbers from 1 to 10 in Label



Private Sub Button1\_Click(sender As Object, e As EventArgs) Handles Button1.Click
 Dim i As Integer
 For i = 1 To 10
 Label1.Text = Label1.Text + " " & i
 Next
End Sub

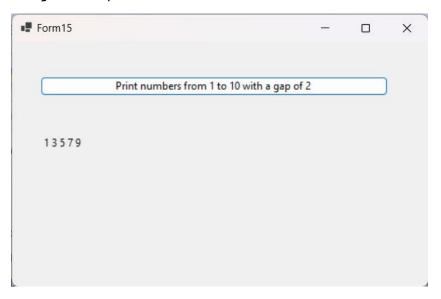
Program to demonstrate For Loop to print numbers from 10 to 1



Private Sub Button1\_Click(sender As Object, e As EventArgs) Handles Button1.Click
Dim i As Integer

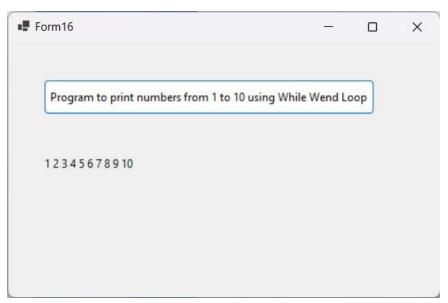
```
For i = 10 To 1 Step -1
        Label1.Text = Label1.Text & " " & i
    Next
End Sub
```

Program to demonstrate for loop to print numbers from 1 to 10 with a gap of 2 using for loop



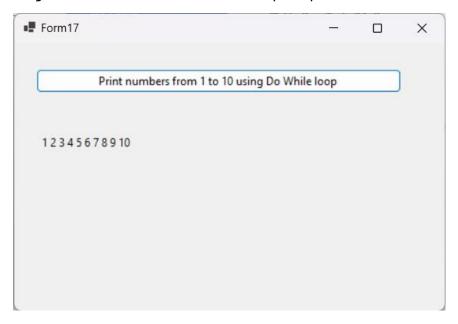
Private Sub Button1\_Click(sender As Object, e As EventArgs) Handles Button1.Click
 Dim i as Integer
 For i = 1 To 10 Step 2
 Label1.Text = Label1.Text & " " & i
 Next
End Sub

Program to print numbers from 1 to 10 using While Wend Loop



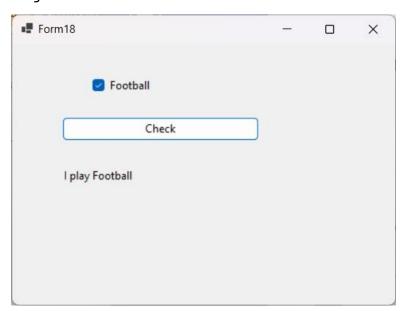
Private Sub Button1\_Click(sender As Object, e As EventArgs) Handles Button1.Click
 Dim i As Integer
 i = 1
 While i <= 10
 Label1.Text = Label1.Text & " " & i
 i = i + 1</pre>

Program to demonstrate Do While Loop to print numbers from 1 to 10



```
Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
    Dim i As Integer
    i = 1
    Do While i <= 10
        Label1.Text = Label1.Text & " " & i
        i = i + 1
    Loop
End Sub</pre>
```

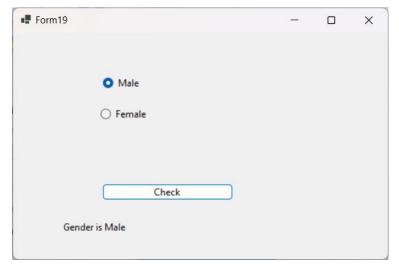
Program to demonstrate CheckBox Control



```
Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
   If CheckBox1.Checked = True Then
       Label1.Text = "I play Football"
   Else
       Label1.Text = "I do Not Play Football"
   End If
```

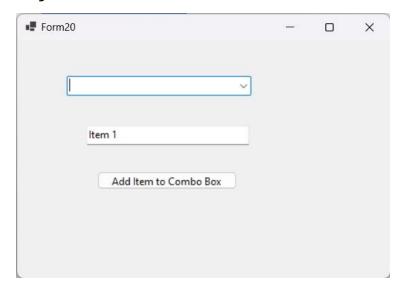
Program to demonstrate Radio Button Control

When you want to select only one radio button out of multiple radio buttons you should place them in a container control like a group box or a panel



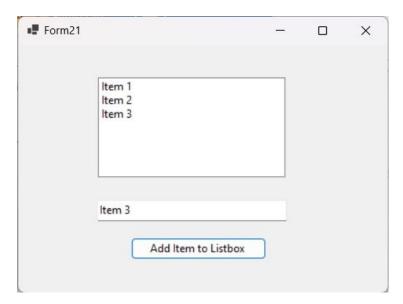
Private Sub Button1\_Click(sender As Object, e As EventArgs) Handles Button1.Click
 If RadioButton1.Checked = True Then
 Label1.Text = "Gender is Male"
 End If
 If RadioButton2.Checked = True Then
 Label1.Text = "Gender is Female"
 End If
End Sub

Program to demonstrate ComboBox Control



Private Sub Button1\_Click(sender As Object, e As EventArgs) Handles Button1.Click ComboBox1.Items.Add(TextBox1.Text)
End Sub

Program to demonstrate ListBox Control



Private Sub Button1\_Click(sender As Object, e As EventArgs) Handles Button1.Click ListBox1.Items.Add(TextBox1.Text)
End Sub