

WAP to build a simple calculator

Public Class Form1

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

Dim a, b, c As Integer

a = TextBox1.Text

b = TextBox2.Text

c = a - b

TextBox3.Text = c

End Sub

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

Dim a, b As Integer

Dim c As Double

a = TextBox1.Text

b = TextBox2.Text

c = a / b

TextBox3.Text = c

End Sub

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

Dim a, b, c As Integer

a = TextBox1.Text

b = TextBox2.Text

c = a + b

TextBox3.Text = c

End Sub

Private Sub Button3_Click(sender As Object, e As EventArgs) Handles Button3.Click

Dim a, b As Integer

Dim c As Double

a = TextBox1.Text

b = TextBox2.Text

c = a * b

TextBox3.Text = c

End Sub

End Class

Form1

ENTER FIRST NUMBER 12

ENTER SECOND NUMBER 10

RESULT 120

+ - × ÷

WAP to find area and perimeter of square, rectangle, circle, triangle

Public Class Form1

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

Dim r As Integer

Dim area As Double

r = TextBox1.Text

area = 3.14 * r * r

TextBox8.Text = area

End Sub

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

Dim r As Integer

Dim p As Double

r = TextBox1.Text

p = 2 * 3.14 * r

TextBox8.Text = p

End Sub

Private Sub Button3_Click(sender As Object, e As EventArgs) Handles Button3.Click

Dim s, area As Integer

s = TextBox2.Text

area = s * s

TextBox8.Text = area

End Sub

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

Dim s, p As Integer

s = TextBox2.Text

p = 4 * s

TextBox8.Text = p

End Sub

Private Sub Button5_Click(sender As Object, e As EventArgs) Handles Button5.Click

Dim l, b, area As Integer

l = TextBox3.Text

b = TextBox4.Text

area = l * b

TextBox8.Text = area

End Sub

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

Dim l, b, p As Integer

l = TextBox3.Text

b = TextBox4.Text

p = 2 * (l + b)

TextBox8.Text = p

End Sub

Private Sub Button7_Click(sender As Object, e As EventArgs) Handles Button7.Click

Dim h, b As Integer

Dim area As Double

h = TextBox5.Text

b = TextBox6.Text

area = 0.5 * h * b

TextBox8.Text = area

End Sub

Private Sub Button8_Click(sender As Object, e As EventArgs) Handles Button8.Click

Dim l, b, h, p As Integer

l = TextBox5.Text

b = TextBox6.Text

h = TextBox7.Text

p = l + b + h

TextBox8.Text = p

End Sub

End Class

The screenshot shows a Windows Form titled "Form1" with a light gray background. At the top, there is a "RESULT" label and a text box containing the number "30". Below this, the form is organized into four columns, each representing a different geometric shape:

- Column 1 (Circle):** Labeled "RADIUS" with an input field. Below it are buttons for "AREA" and "PERIMETE".
- Column 2 (Rectangle):** Labeled "SIDE" with an input field. Below it are buttons for "AREA" and "PERIMETE".
- Column 3 (Parallelogram):** Labeled "LENGTH" and "BREADTH" with input fields. Below it are buttons for "AREA" and "PERIMETE".
- Column 4 (Triangle):** Labeled "PERPENDICULAR", "BASE", and "HYPOTENUSE" with input fields. Below it are buttons for "AREA" and "PERIMETE".

The "PERIMETE" button in the third column is currently selected, indicated by a blue border.

WAP to execute try catch finally block

Public Class Form1

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

Try

Dim i, result As Integer

i = InputBox("Enter Value Of i:", "Type Here...")

result = 1 / i

Catch ex As Exception

MessageBox.Show(ex.ToString())

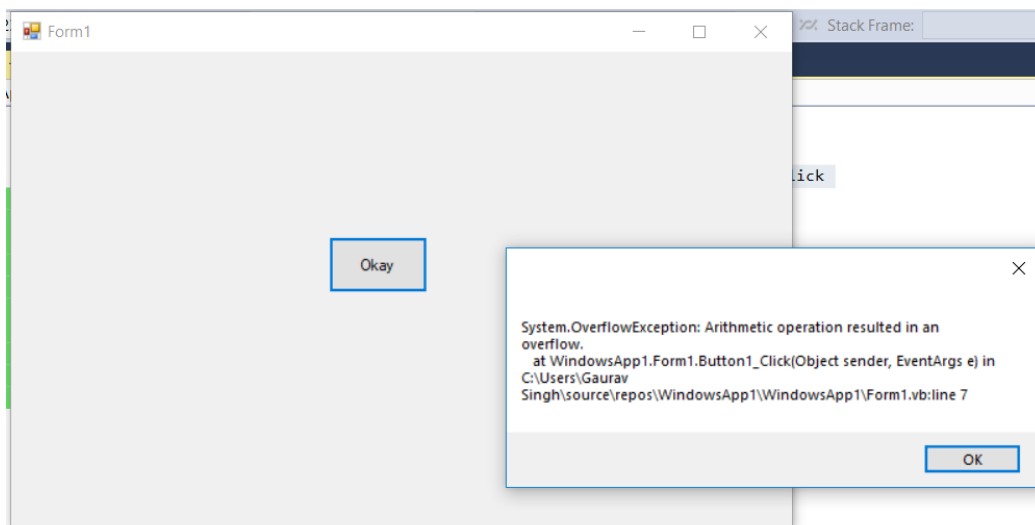
Finally

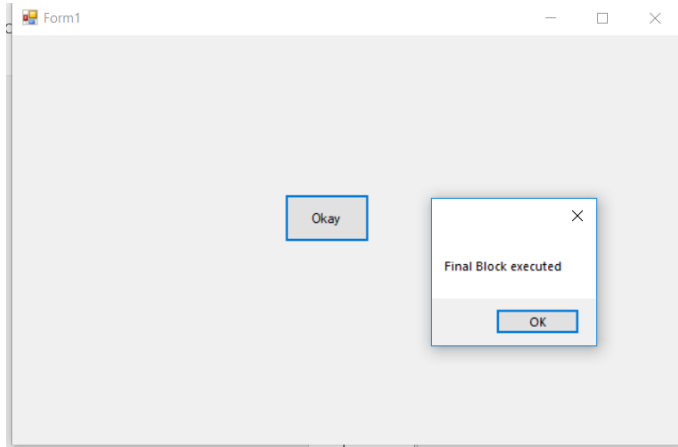
MessageBox.Show("Finally Block Executed")

End Try

End Sub

End Class





WAP to find largest of three numbers

Public Class Form1

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

Dim a, b, c As Integer

a = TextBox1.Text

b = TextBox2.Text

c = TextBox3.Text

If (a > b And a > c) Then

MsgBox("Largest Number Is " & a)

ElseIf (b > a And b > c) Then

MsgBox("Largest Number Is " & b)

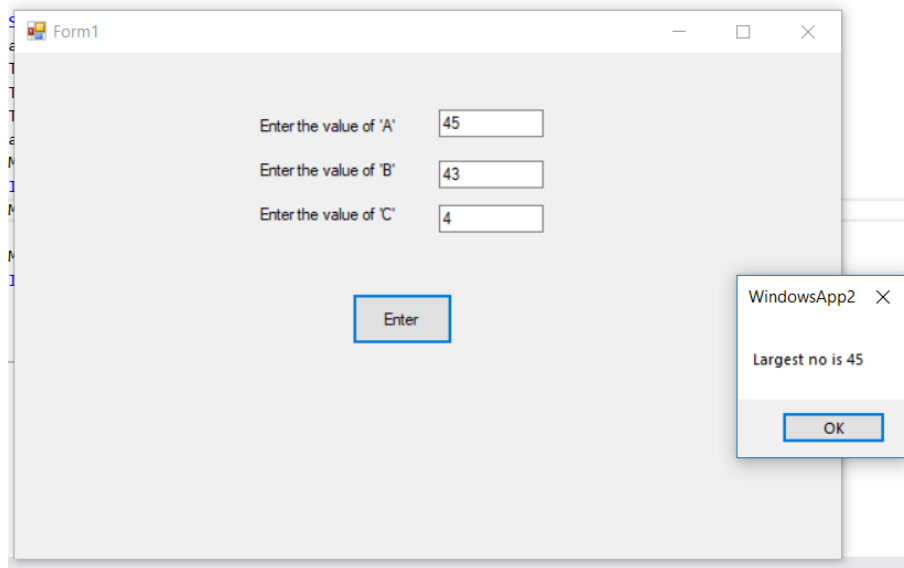
Else

MsgBox("Largest Number Is " & c)

End If

End Sub

End Class



WAP to show result of student

Public Class Form1

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

Dim a As Integer

a = InputBox("Enter marks out of 100")

If (a >= 90) Then

MsgBox("EXCELLENT", 1, "RESULT")

ElseIf (a < 90 And a >= 75) Then

MsgBox("VERY GOOD", 1, "RESULT")

ElseIf (a < 75 And a >= 50) Then

MsgBox("PASS", 1, "RESULT")

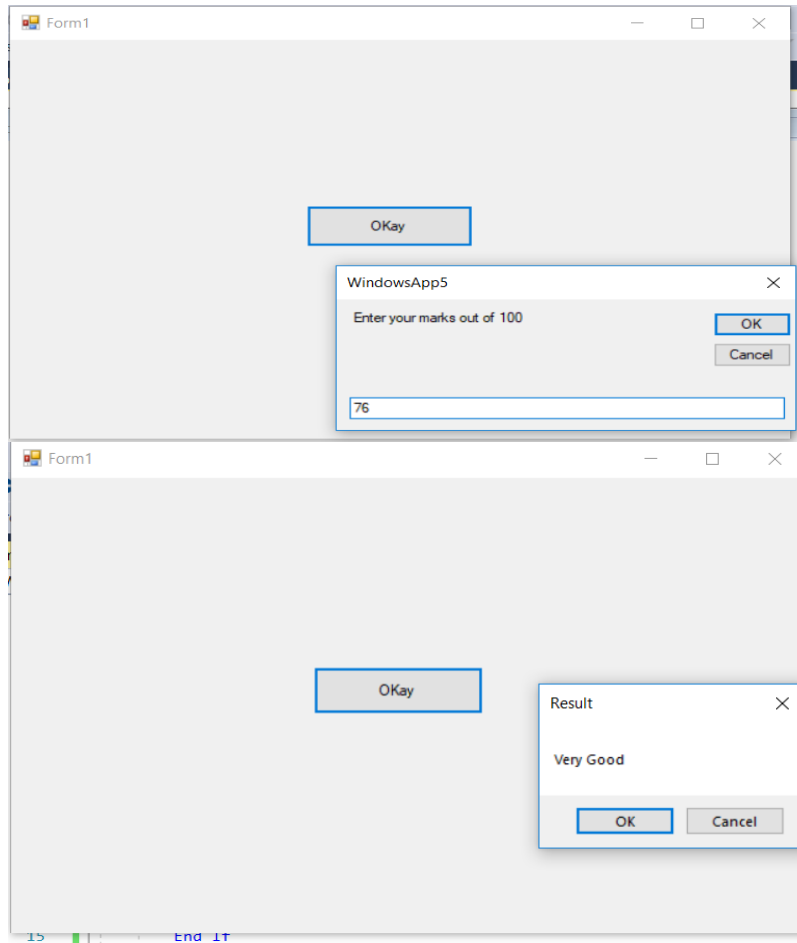
ElseIf (a < 50 And a >= 0) Then

MsgBox("FAIL", 1, "RESULT")

End If

End Sub

End Class



WAP to demonstrate dynamic array

Public Class Form1

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

Dim marks(), i As Integer

ReDim marks(2)

For i = 0 To 2

marks(i) = InputBox("Enter the values for array:")

Next

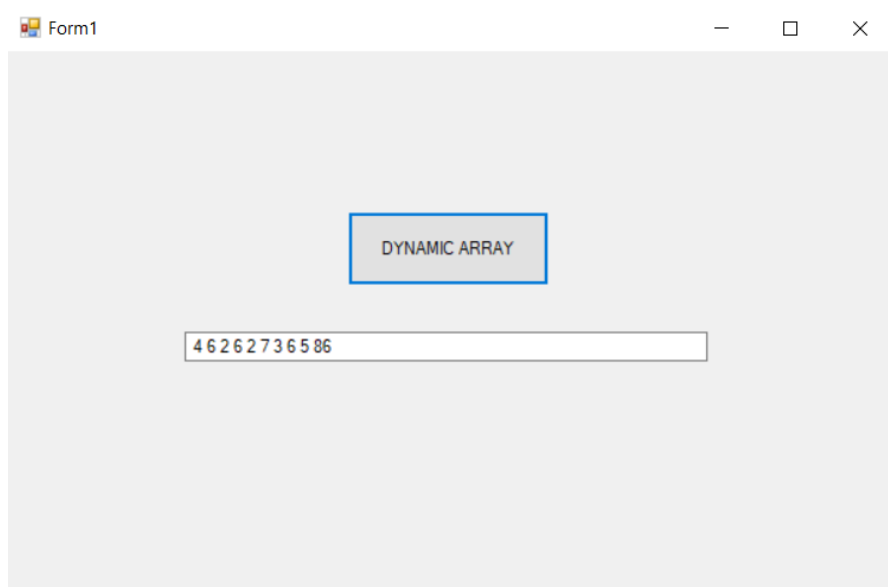
ReDim Preserve marks(9)

For i = 3 To 9

marks(i) = InputBox("Enter the values for array:")

Next

```
For i = 0 To 9
    TextBox1.Text &= " " & marks(i)
Next
End Sub
End Class
```



WAP to calculate factorial

```
Public Class Form1
    Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
        Dim i, fact As Integer
        fact = TextBox1.Text
        i = fact - 1
        While (i >= 1)
            fact *= i
            i -= 1
        End While
        TextBox2.Text = fact
    End Sub
End Class
```


The screenshot shows a Windows application window titled "Form1". Inside the window, there are two text boxes. The first text box is labeled "NUMBER" and contains the value "8". The second text box is labeled "FACTORIAL" and contains the value "40320". Below these text boxes, there is a button labeled "FACTORIAL". The window has a standard Windows title bar with minimize, maximize, and close buttons.

WAP to print Fibonacci series

Public Class Form1

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

Dim a, b, c, n As Integer

a = 0

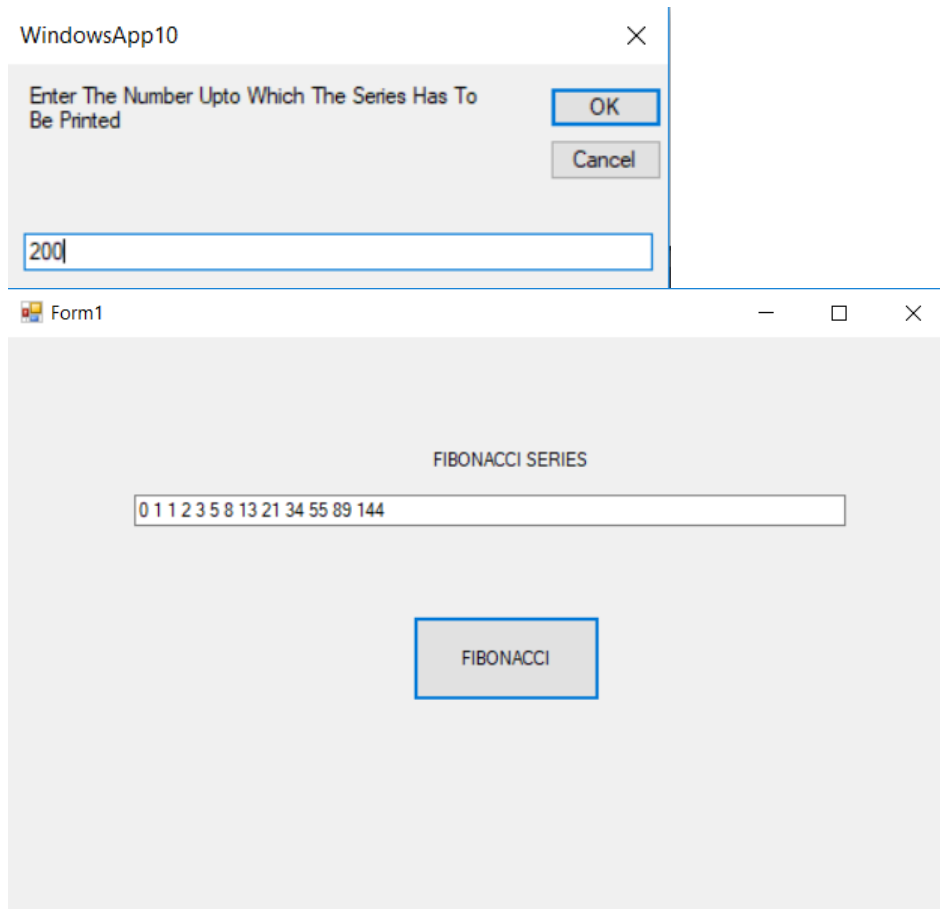
b = 1

c = a + b

n = InputBox("Enter The Number Upto Which The Series Has To Be Printed")

TextBox1.Text = 0

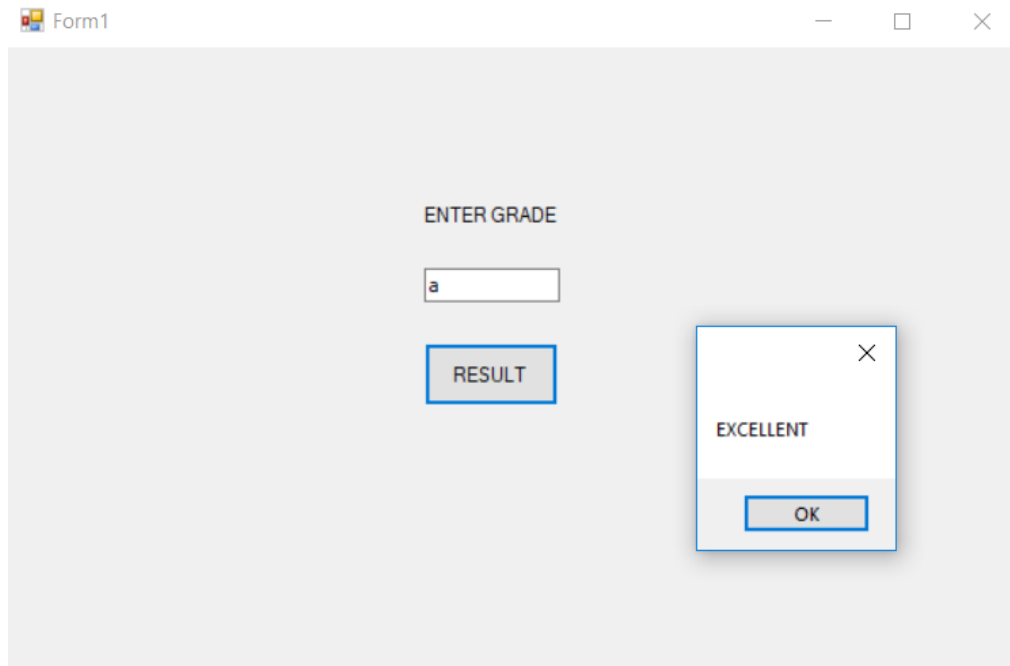
```
While (c <= n)
    TextBox1.Text &= " " & c
    c = a + b
    a = b
    b = c
End While
End Sub
End Class
```



WAP to print grade using select case

```
Public Class Form1
    Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
        Dim grade As Char
        grade = TextBox1.Text
        Select Case (grade)
            Case "a", "A"
```

```
        MessageBox.Show("EXCELLENT")
    Case "b", "B", "c", "C"
        MessageBox.Show("VERY GOOD")
    Case "d", "D"
        MessageBox.Show("PASS")
    Case "e", "E"
        MessageBox.Show("FAIL")
    Case Else
        MessageBox.Show("INVALID INPUT!!!")
End Select
End Sub
End Class
```



WAP to demonstrate Array List

```
Public Class Form1
    Dim a As New ArrayList()
    Dim x, y As Integer
    Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
```

```
x = InputBox("Enter An Element")
a.Add(x)
TextBox1.Text = ""
For y = 0 To a.Count - 1
    TextBox1.Text &= " " & a.Item(y)
Next
End Sub
```

```
Private Sub Button2_Click(sender As Object, e As EventArgs) Handles Button2.Click
    y = InputBox("Enter Index Number:")
    x = InputBox("Enter An Element:")
    a.Insert(y, x)
    TextBox1.Text = ""
    For y = 0 To a.Count - 1
        TextBox1.Text &= " " & a.Item(y)
    Next
End Sub
```

```
Private Sub Button3_Click(sender As Object, e As EventArgs) Handles Button3.Click
    x = InputBox("Enter Name Of Element")
    a.Remove(x)
    TextBox1.Text = ""
    For y = 0 To a.Count - 1
        TextBox1.Text &= " " & a.Item(y)
    Next
End Sub
```

```
Private Sub Button4_Click(sender As Object, e As EventArgs) Handles Button4.Click
    y = InputBox("Enter Index To Remove Element")
    a.RemoveAt(y)
    TextBox1.Text = ""
    For y = 0 To a.Count - 1
        TextBox1.Text &= " " & a.Item(y)
    Next
End Sub
```

```
Private Sub Button5_Click(sender As Object, e As EventArgs) Handles Button5.Click
    a.Sort()
    TextBox1.Text = ""
    For y = 0 To a.Count - 1
        TextBox1.Text &= " " & a.Item(y)
    Next
End Sub
```

```
Private Sub Button6_Click(sender As Object, e As EventArgs) Handles Button6.Click
    TextBox1.Text = ""
    MsgBox(a.Count)
End Sub
End Class
```

Form1

ARRAYLIST

6 5 4 3 2 1

LAST INSERT INDEX

ANY REMOVE INDEX

SORT COUNT

WindowsApp17

Enter Index To Remove Element

OK Cancel

Form1

ARRAYLIST

1 3 4 5 6

LAST INSERT INDEX

ANY REMOVE INDEX

SORT COUNT

WAP to demonstrate enumeration

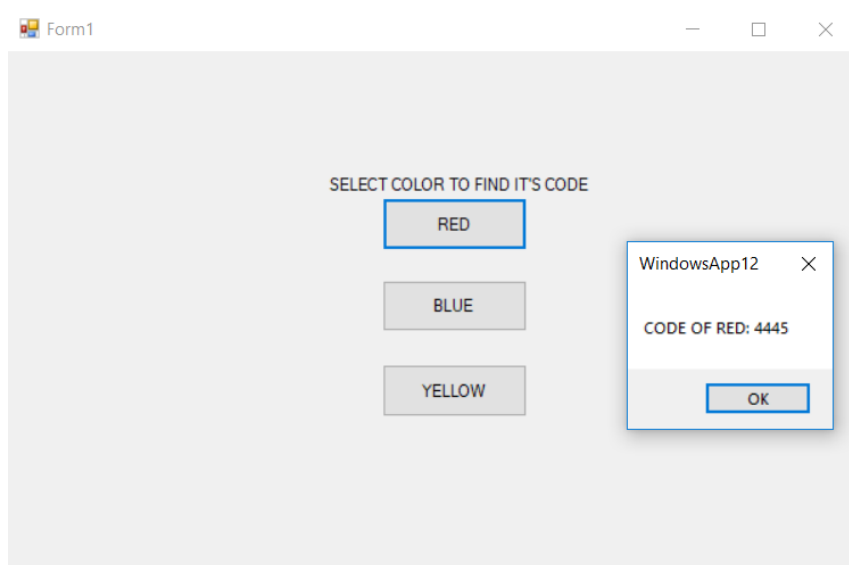
Public Class Form1

```
Enum color  
    red = 4445  
    blue = 1234  
    yellow = 8888  
End Enum
```

```
Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click  
    MsgBox("CODE OF RED: " & color.red)  
End Sub
```

```
Private Sub Button2_Click(sender As Object, e As EventArgs) Handles Button2.Click  
    MsgBox("CODE OF BLUE: " & color.blue)  
End Sub
```

```
Private Sub Button3_Click_1(sender As Object, e As EventArgs) Handles Button3.Click  
    MsgBox("CODE OF YELLOW: " & color.yellow)  
End Sub  
End Class
```



WAP to find number is prime or not

Public Class Form1

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

Dim b As Boolean = True

Dim i, a As Integer

a = TextBox1.Text

For i = 2 To a - 1

If (a Mod i = 0) Then

b = False

End If

Next

If (b = True) Then

MsgBox("Number Is Prime")

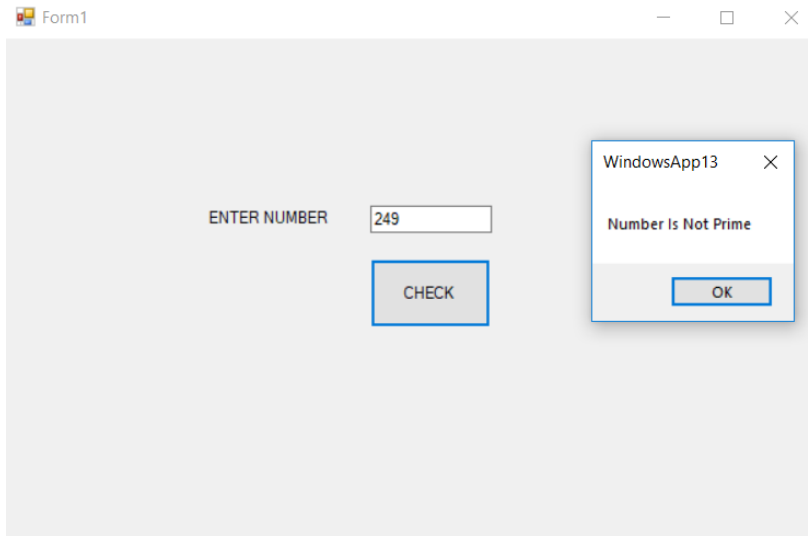
Else

MsgBox("Number Is Not Prime")

End If

End Sub

End Class



WAP to print prime number between 2 to 100

Public Class Form1

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

Dim b As Boolean = True

Dim i, j As Integer

For j = 2 To 100

b = True

For i = 2 To j - 1

If (j Mod i = 0) Then

b = False

Exit For

End If

Next

If (b = True) Then

TextBox1.Text += " " & j

End If

Next

End Sub

End Class

Form1

PRIME NUMBER BETWEEN 2 AND 100

2 3 5 7 11 13 17 19 23 29 31 37 41 43 47 53 59 61 67 71 73 79 83 89 97

SHOW

WAP to find sum and average of an array

```
Public Class Form1
```

```
    Dim a As New ArrayList()
```

```
    Dim b, x As Integer
```

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

```
        b = InputBox("Enter An Element", "ADD")
```

```
        a.Add(b)
```

```
        TextBox1.Text = ""
```

```
        For x = 0 To a.Count - 1
```

```
            TextBox1.Text &= " " & a.Item(x)
```

```
        Next
```

```
    End Sub
```

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

```
        x = 0
```

```
        For b = 0 To a.Count - 1
```

```
            x += a.Item(b)
```

```
        Next
```

```
        MsgBox(x,, "Sum Of Array")
```

```
    End Sub
```

```
    Private Sub Button3_Click(sender As Object, e As EventArgs) Handles Button3.Click
```

```
        x = 0
```

```
        For b = 0 To a.Count - 1
```

```
            x += a.Item(b)
```

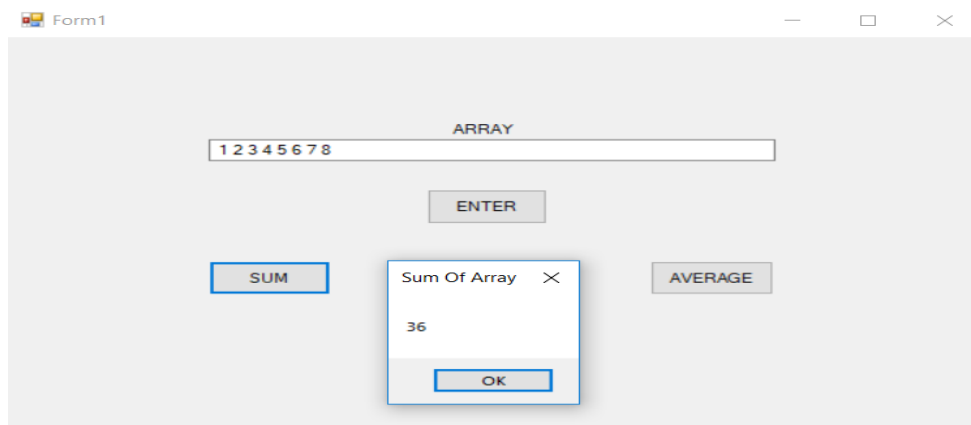
```
        Next
```

```
        x = x / a.Count
```

```
        MsgBox(x,, "Average Of Array")
```

```
    End Sub
```

```
End Class
```



Form1

ARRAY

1 2 3 4 5 6 7 8

ENTER

SUM

AVERAGE

Average Of Array X

4

OK

WAP to reverse a number

```
Public Class Form1
```

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

```
        Dim a As Integer
```

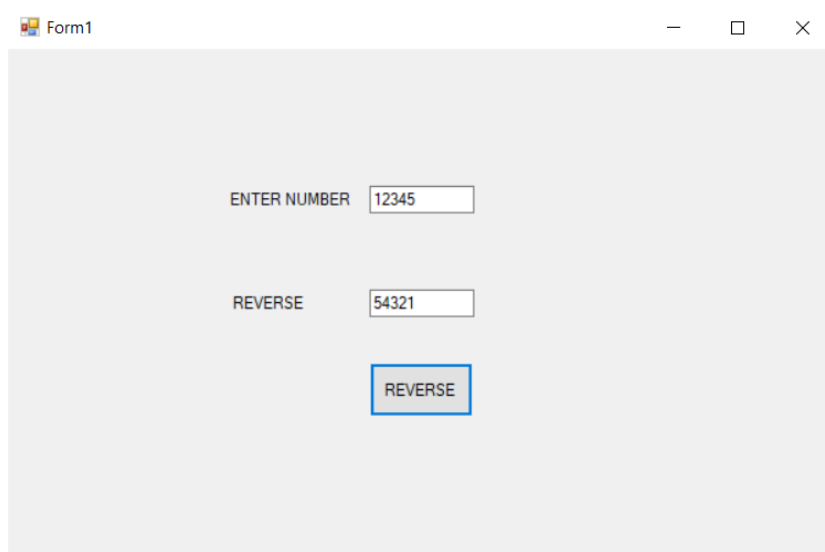
```
        For a = TextBox1.TextLength - 1 To 0 Step -1
```

```
            TextBox2.Text += TextBox1.Text(a)
```

```
        Next
```

```
    End Sub
```

```
End Class
```



The screenshot shows a Windows application window titled "Form1". Inside the window, there are two input fields and one button. The first input field is labeled "ENTER NUMBER" and contains the text "12345". The second input field is labeled "REVERSE" and contains the text "54321". Below the second input field, there is a button labeled "REVERSE".

WAP to insert and delete an element in an array from a specified position and also print smallest element in array

Public Class Form1

Dim ar As New ArrayList

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

Try

ar.RemoveAt(Int(TextBox1.Text) - 1)

Catch ex As Exception

MessageBox.Show(ex.ToString())

End Try

End Sub

Private Sub Button3_Click(sender As Object, e As EventArgs) Handles Button3.Click

ar.Remove(Int(TextBox1.Text))

End Sub

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

Try

ar.Insert(Int(TextBox1.Text) - 1, Int(TextBox2.Text))

Catch ex As Exception

MessageBox.Show(ex.ToString())

End Try

End Sub

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

ar.Add(Int(TextBox1.Text))

End Sub

Private Sub Button5_Click(sender As Object, e As EventArgs) Handles Button5.Click

TextBox1.Text = ""

For i = 0 To ar.Count - 1

TextBox1.Text = TextBox1.Text + (i + 1).ToString() + ". " + ar.Item(i).ToString() +

vbNewLine

Next

End Sub

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

ar.Sort()

MessageBox.Show(ar(0), "Smallest Element")

End Sub

End Class

Form1

1. 3
2. 5
3. 1
4. 9
5. 8

INSERT

at last in middle

DELETE

item index

Refresh Smallest

Form1

1. 3
2. 5
3. 1
4. 9
5. 8

Smallest Element

1

OK

INSERT

at last in middle

DELETE

item index

Refresh Smallest

WAP to make calculator which perform: Addition, Subtraction, Multiplication, Division, Modulus and Power. According to user choice. Use select case.

Public Class Calculator

```
Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
    opr.Text = "+"
End Sub
```

```
Private Sub Button2_Click(sender As Object, e As EventArgs) Handles Button2.Click
    opr.Text = "-"
End Sub
```

```
Private Sub Button3_Click(sender As Object, e As EventArgs) Handles Button3.Click
    opr.Text = "*"
End Sub
```

```
Private Sub Button4_Click(sender As Object, e As EventArgs) Handles Button4.Click
    opr.Text = "/"
End Sub
```

```
Private Sub Button5_Click(sender As Object, e As EventArgs) Handles Button5.Click
    opr.Text = "^"
End Sub
```

```
Private Sub Button6_Click(sender As Object, e As EventArgs) Handles Button6.Click
    opr.Text = "%"
End Sub
```

```
Private Sub Button7_Click(sender As Object, e As EventArgs) Handles Button7.Click
    Dim n1, n2 As Integer
    n1 = Int(num1.Text)
    n2 = Int(num2.Text)
    Select Case opr.Text
        Case "+"
            result.Text = n1 + n2
        Case "-"
            result.Text = n1 - n2
        Case "*"
            result.Text = n1 * n2
        Case "/"
            result.Text = n1 / n2
        Case "%"
            result.Text = n1 Mod n2
        Case "^"
            Dim mul As Integer = 1
```

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ROLL NO. 03217702017

```
    For i = 0 To n2 - 1
        mul *= n1
    Next
    result.Text = mul
End Select
End Sub
End Class
```

Calculator

NUM1

OPR

NUM2

RESULT

3125

Calculator

NUM1

OPR

NUM2

RESULT

1