

	Visual-Basic Programs
✓ 16	Find the area & circumference of circle & rectangle.
✓ 17	Using drag & drop change background colors!
✓ 18	Checking validity.
✓ 19	Creation of a Scientific Calculator.
✓ 20	Sum of the first 100 numbers using Do loop.
21	Use of Select-Case.

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Experiment Incomplete For

Diagram _____

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Name Vaushil Soni

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Expt. No. 16 Title Area of circle & rectangle.

Aim: W.a.p. in VB that calculates area of 2 shapes as well as their perimeters.

Object View:-

Area of circle & rectangle	
<input type="radio"/> Circle	<input type="radio"/> Rectangle
Radius <input type="text"/>	Length <input type="text"/>
	Breadth <input type="text"/>
<input type="button" value="Area of Circle"/>	<input type="button" value="Area of Rectangle"/>

Code for Area of circle:-

```
Private Sub Command1_Click()
```

```
Dim r As Double
```

```
r = text1.Text
```

```
MsgBox ("area is" & (22 * r * r) / 7)
```

```
MsgBox ("circumference is" & (2 * 22 * r) / 7)
```

```
End Sub
```

Code for Area of rectangle:-

```
Private Sub Command2_Click()
```

```
Dim L As Integer, b As Integer
```

```
L = text2.Text
```

```
b = text3.Text
```

```
MsgBox ("area is" & (L * b))
```

```
Msgbox("perimeter is" & (2 * l + 2 * b))  
End Sub.
```

Code for Option 1 (circle).

```
Private Sub Option1_click()
```

```
If Option1.value = True then
```

```
Option2.visible = True
```

```
Text1.visible = True.
```

```
Text2.visible = false.
```

```
Text3.visible = false
```

```
Label4.visible = True.
```

```
Label5.visible = False.
```

```
Label6.visible = false.
```

```
Command1.visible = True.
```

```
Command2.visible = False.
```

```
End If
```

```
End Sub.
```

Code for Option 2 (rectangle).

```
Private Sub Option2_click()
```

```
If Option2.value = True then
```

```
Text1.visible = False.
```

```
Text2.visible = True.
```

```
Text3.visible = True.
```

```
Label4.visible = False.
```

```
Label5.visible = True.
```

```
Label6.visible = True.
```

```
Command1.visible = false.
```

```
Command2.visible = True.
```

```
End If
```

```
End Sub.
```


untitled

```
Private Sub Command1_Click()  
Dim r As Double  
r = Text1.Text  
MsgBox ("area is " & (22 * r * r) / 7)  
MsgBox ("circumference is " & (2 * 22 * r) / 7)  
End Sub
```

```
Private Sub Command2_Click()  
Dim l As Integer, b As Integer  
l = Text2.Text  
b = Text3.Text  
MsgBox ("area is " & (l * b))  
MsgBox ("perimeter is " & (2 * l + 2 * b))  
End Sub
```

```
Private Sub Option1_Click()  
If Option1.Value = True Then  
Option2.Visible = True  
Text1.Visible = True  
Text2.Visible = False  
Text3.Visible = False  
Label4.Visible = True  
Label5.Visible = False  
Label6.Visible = False  
Command1.Visible = True  
Command2.Visible = False  
End If  
End Sub
```

```
private sub option2_Click()  
If Option2.Value = True Then  
Text1.Visible = False  
Text2.Visible = True  
Text3.Visible = True  
Label4.Visible = False  
Label5.Visible = True  
Label6.Visible = True  
Command1.Visible = False  
Command2.Visible = True  
End If  
End Sub
```

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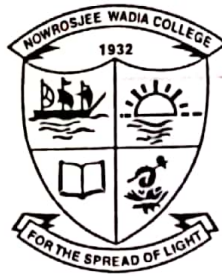
Results _____

Unit _____

Name VRUSHIL SONI

Class XII Roll No. 12032 Batch Wednesday Pair No. -

Expt. No. 17 Title Change colour using drag drop.



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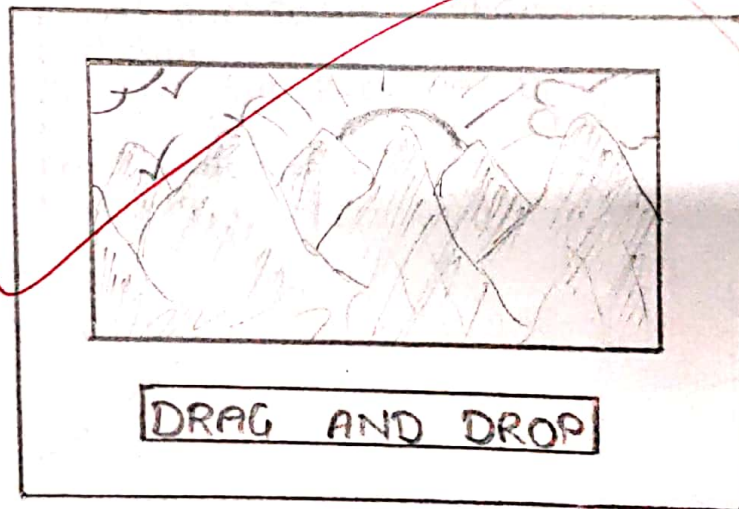
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Aim: Write a program in VB that will display a picture with form-load with red colour. when drag drop option is selected, colour should be blue where drag over option is selected, colour should be green.

Objectview:-



Code for Form-load().

```
Private Sub Form_Load()
```

```
Form1.BackColor = vbRed.
```

```
End Sub.
```

Code for Label1-DragOver.

```
Private Sub Label1_DragOver (Source As Control, X As  
Single, Y As Single, State As Integer).
```

```
Form1.BackColor = vbGreen.
```

```
End Sub.
```

Code for Picture1

Private Sub Picture1_DragDrop (Source As Control, X As Single, Y As Single).

Form1.BackColor = vbBlue.

End Sub.



Untitled

```
Private Sub Form_Load()  
Form1.BackColor = vbRed  
End Sub  
Private Sub Label1_DragOver(Source As Control, X As  
Single, Y As Single, State As Integer)  
Form1.BackColor = vbGreen  
End Sub  
Private Sub Picture1_DragDrop(Source As Control, X  
As Single, Y As Single)  
Form1.BackColor = vbBlue  
End Sub
```


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Name Vaishil Sani

Class XII Roll No. 12032 Batch Wednesday Pair No. —

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Expt. No. 18 Title Validation of Id.

Aim: Wap in VB that checks the validation of a persons Id.

Object view:-

Code for validation:-

```
Private Sub Command1_Click()
```

```
    a=0
```

```
    Dim l as integer.
```

```
    L=Len (text1.text)
```

```
    If L=0 then
```

```
        msgbox ("name cannot be blank")
```

```
        a=1
```

```
    Else
```

```
        for i=1 to L
```

```
            Ucase (Mid (Text1.text, i, 1))
```

```
            If not ((ch >= "A" And ch <= "Z") or (ch = " ")) Then
```

```
                msgbox ("invalid name")
```

```
                text1.text = " "
```

```
                text1.setfocus
```

```
                a=1
```

```
                i = i + 1
```

```
            End if
```


Next i

End if

If Isdate (text2.text) <> True then

msgbox ("Enter a valid dob")

text2.text = ""

text2.SetFocus

a = 1

End If

If IsNumeric (text3.text) <> True then

msgbox ("Enter a valid phone no")

text3.text = ""

text3.SetFocus

a = 1

End If

If a = 0 then

msgbox ("all data fields are valid")

msgbox ("Thank you")

End if

End Sub.

Code for Clear:-

Private Sub Command2_Click()

text1.text = ""

text2.text = ""

text3.text = ""

End Sub.

Code for Exit:-

Private Sub Command3_Click()

End

End Sub.

Untitled

```
Private sub Command1_Click()  
    a = 0  
    Dim l As Integer  
    l = Len(Text1.Text)  
    If l = 0 Then  
        MsgBox ("name cannot be blank")  
        a = 1  
    Else  
        For i = 1 To l  
            UCase (Mid(Text1.Text, i, 1))  
            If Not ((ch >= "A" And ch <= "Z") Or (ch = "")) Then  
                MsgBox ("invalid name")  
                Text1.Text = ""  
                Text1.SetFocus  
                a = 1  
                i = i + 1  
            End If  
        Next i  
    End If  
    If IsDate(Text2.Text) <> True Then  
        MsgBox ("enter a valid dob")  
        Text2.Text = ""  
        Text2.SetFocus  
        a = 1  
    End If  
    If IsNumeric(Text3.Text) <> True Then  
        MsgBox ("enter a valid phone no")  
        Text3.Text = ""  
        Text3.SetFocus  
        a = 1  
    End If  
    If a = 0 Then  
        MsgBox ("all data fields are valid")  
        MsgBox ("thank u")  
    End If  
End sub
```

```
Private sub Command2_Click()  
    Text1.Text = ""  
    Text2.Text = ""  
    Text3.Text = ""  
End sub
```

```
Private sub Command3_Click()  
End  
End sub
```


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Expt. No. 19 Title Scientific Calculator

Aim:- Write a program in VB to design a calculator for scientific functions like sin, cos, tan, cot, sec, cosec, log.

Object View:-

scientific calculator

```
Dim a As String, b, c, r As Double
```

```
Private Sub Command1_Click()  
Text1.Text = Text1.Text + "1"  
End Sub
```

```
Private Sub Command10_Click()  
Text1.Text = Text1.Text + "0"  
End Sub
```

```
Private Sub Command11_Click()  
Text1.Text = Text1.Text + "."  
End Sub
```

```
Private Sub Command12_Click()  
c = Val(Text1.Text)
```

```
Select Case a  
Case "+"  
r = b + c
```

```
Case "-"  
r = b - c
```

```
Case "*"  
r = b * c
```

```
Case "/"  
r = b / c
```

```
Case "^"  
r = b ^ c
```

```
Case "%"  
r = b / 100  
End Select
```

```
Text1.Text = r
```

```
End Sub
```

```
Private Sub Command13_Click()  
a = "+"  
b = Text1.Text  
Text1.Text = " "  
End Sub
```

```
Private Sub Command14_Click()  
a = "-"  
b = Text1.Text  
Text1.Text = " "  
End Sub
```

```
Private Sub Command15_Click()  
a = "*"  
b = Text1.Text  
Text1.Text = " "  
End Sub
```

```
Private Sub Command16_Click()  
a = "/"  
b = Text1.Text
```

scientific calculator

```
Text1.Text = " "  
End Sub
```

```
Private Sub Command17_Click()  
a = "^"  
b = Text1.Text  
Text1.Text = " "  
End Sub
```

```
Private Sub Command18_Click()  
a = "%"  
b = Val(Text1.Text)  
Text1.Text = Text1.Text + "% "  
End Sub
```

```
Private Sub Command19_Click()  
Dim sine As Double  
sine = Sin(Val(Text1.Text) * 3.14 / 180)  
Text1.Text = sine  
End Sub
```

```
Private Sub Command2_Click()  
Text1.Text = Text1.Text + "2"  
End Sub
```

```
Private Sub Command20_Click()  
Dim sine As Double  
sine = Cos(Val(Text1.Text) * 3.14 / 180)  
Text1.Text = sine  
End Sub
```

```
Private Sub Command21_Click()  
Dim sine As Double  
If Val(Text1.Text) >= 180 Then  
sine = Tan(180 - Val(Text1.Text)) * 3.14 / 180  
Else  
sine = Tan(Val(Text1.Text) * 3.14 / 180)  
End If
```

```
If (Val(Text1.Text) = 90) Then  
Text1.Text = "Infinity"  
Else  
Text1.Text = sine  
End If
```

```
End Sub
```

```
Private Sub Command22_Click()  
Dim sine As Double  
If Val(Text1.Text) <> 0 And Val(Text1.Text) <> 180 Then  
sine = Tan(Val(Text1.Text) * 3.14 / 180)  
Text1.Text = 1 / sine  
End If
```

```
If Val(Text1.Text) = 0 Or Val(Text1.Text) = 180 Then  
Text1.Text = "Infinity"  
End If  
End Sub
```

```
Private Sub Command23_Click()  
Dim sine As Double  
If Val(Text1.Text) <> 0 And Val(Text1.Text) <> 180 Then  
sine = Sin(Val(Text1.Text) * 3.14 / 180)
```

scientific calculator

```
Text1.Text = 1 / sine  
Else  
Text1.Text = "Infinity"  
End If  
End Sub
```

```
Private Sub Command24_Click()  
Dim sine As Double  
If Val(Text1.Text) <> 90 Then  
sine = Cos(Val(Text1.Text) * 3.14 / 180)  
Text1.Text = 1 / sine  
Else  
Text1.Text = "infinity"  
End If  
End Sub
```

```
Private Sub Command25_Click()  
b = Val(Text1.Text)  
Text1.Text = Log(b) / Log(10)  
End Sub
```

```
Private Sub Command26_Click()  
Text1.Text = " "  
End Sub
```

```
Private Sub Command27_Click()  
End  
End Sub
```

```
Private Sub Command3_Click()  
Text1.Text = Text1.Text + "3"  
End Sub
```

```
Private Sub Command4_Click()  
Text1.Text = Text1.Text + "4"  
End Sub
```

```
Private Sub Command5_Click()  
Text1.Text = Text1.Text + "5"  
End Sub
```

```
Private Sub Command6_Click()  
Text1.Text = Text1.Text + "6"  
End Sub
```

```
Private Sub Command7_Click()  
Text1.Text = Text1.Text + "7"  
End Sub
```

```
Private Sub Command8_Click()  
Text1.Text = Text1.Text + "8"  
End Sub
```

```
Private Sub Command9_Click()  
Text1.Text = Text1.Text + "9"  
End Sub
```


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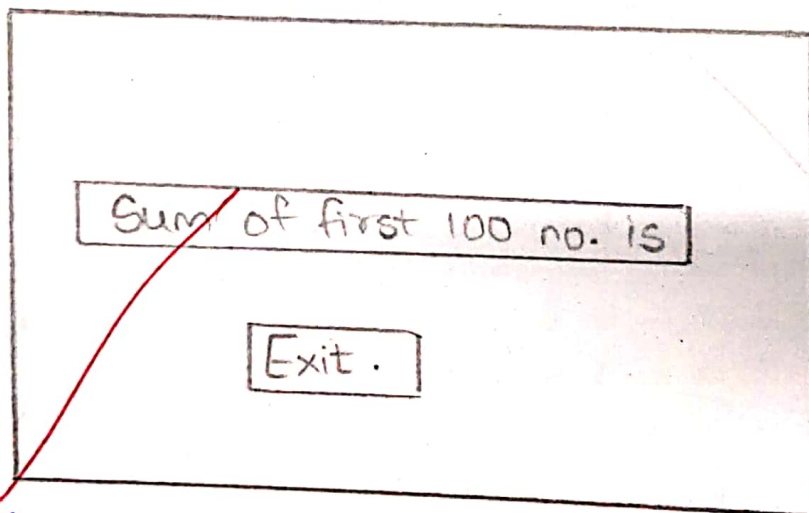
Name Youshil Seni

Class XII Roll No. 12032 Batch Wednesday Pair No. -

Expt. No. 20 Title Addition of 1st 100 nos.

Aim: write a program in VB that calculates the sum of 1st 100 nos.

Object view:-



Code for Sum of first 100 no is

Private Sub Command1_Click()

Dim a As Integer.

Dim b As Integer.

a = 0

b = 1

Do while (b <= 100).

a = a + b

b = b + 1

Loop

Msg Box ("sum is") & a

End Sub.

Code for Exit.

Private Sub Command2_Click()

End

End Sub

Untitled

```
Private Sub Command1_Click()  
Dim a As Integer  
Dim b As Integer  
a = 0  
b = 1  
Do While (b <= 100)  
a = a + b  
b = b + 1  
Loop  
MsgBox ("sum is ") & a  
End Sub
```

```
Private Sub Command2_Click()  
End  
End Sub
```


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Diagram _____

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Name Vaishali Sani

Class XII Roll No. 12032 Batch Wednesday Pair No. -



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Expt. No. 21 Title Use of Select Case

Aim: Write a program in VB using case condition that accepts marks out of hundred of 6 subjects during execution. The program should display class based on marks.

Object view.

SUM OF MARKS OF 6 SUBJECTS.

SUB 1	<input type="text"/>
SUB 2	<input type="text"/>
SUB 3	<input type="text"/>
SUB 4	<input type="text"/>
SUB 5	<input type="text"/>
SUB 6	<input type="text"/>

Code for Calculate: -

Private Sub Command1_Click()

Dim test As Boolean.

test = True.

s1 = val(Text1.text).

s2 = val(Text2.text).

s3 = val(Text3.text).

s4 = val(Text4.text).

S5 = val (text5.text)

S6 = val (text6.text).

agg = (s1 + s2 + s3 + s4 + s5 + s6) / 6.

select case test

case s1 < 40 or s2 < 40 or s3 < 40 or s4 < 40 or s5 < 40 or s6 < 40

msgbox ("fail")

case agg < 60

msgbox ("second class")

case Else

msgbox ("first class")

End select

End Sub.

Code for Exit.

Private Sub Command2_Click()

End

End Sub.



untitled

```
Private Sub Command1_Click()  
Dim test As Boolean  
test = True  
s1 = Val(Text1.Text)  
s2 = Val(Text2.Text)  
s3 = Val(Text3.Text)  
s4 = Val(Text4.Text)  
s5 = Val(Text5.Text)  
s6 = Val(Text6.Text)  
agg = (s1 + s2 + s3 + s4 + s5 + s6) / 6  
Select Case test  
Case s1 < 40 Or s2 < 40 Or s3 < 40 Or s4 < 40 Or s5 < 40 Or s6 < 40  
MsgBox ("fail")  
Case agg < 60  
MsgBox ("second class")  
Case Else  
MsgBox ("first class")  
End Select  
End Sub  
  
Private Sub Command2_Click()  
End  
End Sub
```