VBA PRACTICALS

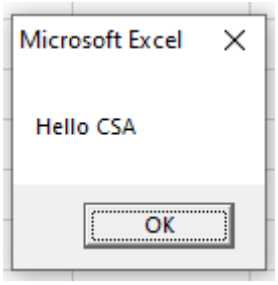
PRACTICAL NO.-01

AIM- Write a Simple program in VBA(Visual Basic Application) to say Hello CSA.

PROGRAM CODE-

```
Sub csa()
Dim str As String
Str=”Hello CSA”
MsgBox(str)
End Sub
```

OUTPUT-



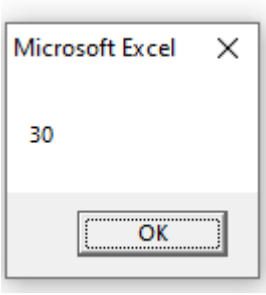
PRACTICAL NO.-02

AIM- Write a program in VBA to add two numbers.

PROGRAM CODE-

```
Sub add1()
Dim a, b, c, r As Integer
a = 20
b = 10
r = a + b
MsgBox (r)
End Sub
```

OUTPUT:-



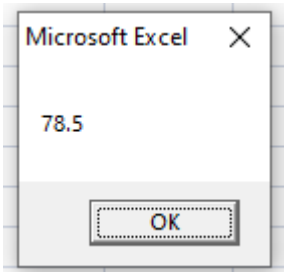
PRACTICAL NO.-03

AIM- Write a program in VBA to find area of circle.

PROGRAM CODE-

```
Sub area()
Dim pi, r, result As Double
pi = 3.14
r = 5
result = pi * r * r
MsgBox (result)
End Sub
```

OUTPUT-



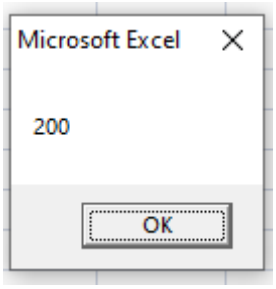
PRACTICAL NO.-04

AIM- Write a program in VBA to find calculate Simple Interest.

PROGRAM CODE-

```
Sub si()
Dim p, r, t, result As Double
p = 2000
r = 5
t = 2
result = (p * r * t) / 100
MsgBox (result)
End Sub
```

OUTPUT-



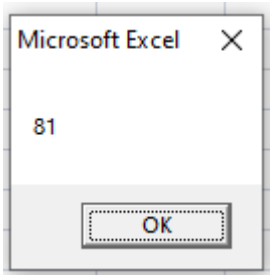
PRACTICAL NO.-05

AIM- Write a program in VBA to find calculate Percentage of Five Subject.

PROGRAM CODE-

```
Sub mal()
Dim a, b, c, d, e, percentage As Double
a = 90
b = 80
c = 75
d = 60
e = 100
percentage = (a + b + c + d + e) / 500 * 100
MsgBox (percentage)
End Sub
```

OUTPUT-



PRACTICAL NO.-06

AIM- Write a program in VBA to find given number is odd or even.

PROGRAM CODE-

```
Sub even()
Dim a As Double
a = 31
If (a Mod 2 = 0) Then
MsgBox ("a is even number")
End If
If (a Mod 2 <> 0) Then
MsgBox ("a is odd number")
End If
End Sub
```

OUTPUT-

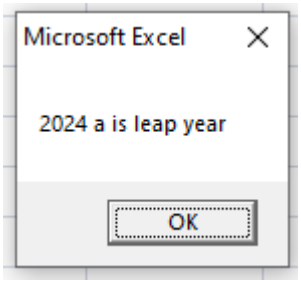
PRACTICAL NO.-07

AIM- Write a program in VBA to find leap year(year is leap or not).

PROGRAM CODE-

```
Sub leap()
Dim a As Integer
a = 2024
If (a Mod 4 = 0) Then
MsgBox ("a is leap year")
Else
MsgBox ("a is not leap year")
End If
End Sub
```

OUTPUT-



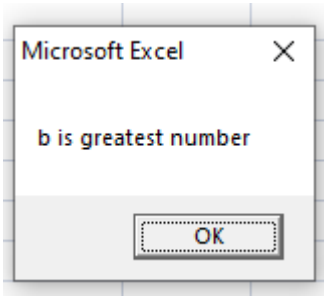
PRACTICAL NO.-08

AIM- Write a program in VBA to find greatest number among three numbers.

PROGRAM CODE-

```
Sub greatest()
Dim a, b, c As Double
a = 40
b = 50
c = 30
If (a > b And a > c) Then
MsgBox ("a is greatest number")
End If
If (b > a And b > c) Then
MsgBox ("b is greatest number")
End If
If (c > a And c > b) Then
MsgBox ("c is greatest number")
End If
End Sub
```

OUTPUT-



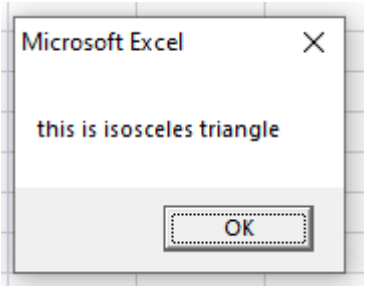
PRACTICAL NO.-09

AIM- Write a program in VBA to find out triangle is Equialateral,Isosceles or Scelene.

PROGRAM CODE-

```
Sub triangle()
Dim a,b,c AS Double
A=3
B=4
C=4
If (a = b And a = c) Then
MsgBox ("this is a equaliteral triangle")
ElseIf (a <> b And b <> c And a <> c) Then
MsgBox ("this is a scelene triangle")
Else
MsgBox ("this is a isosceles triangle")
End If
End Function
```

OUTPUT-



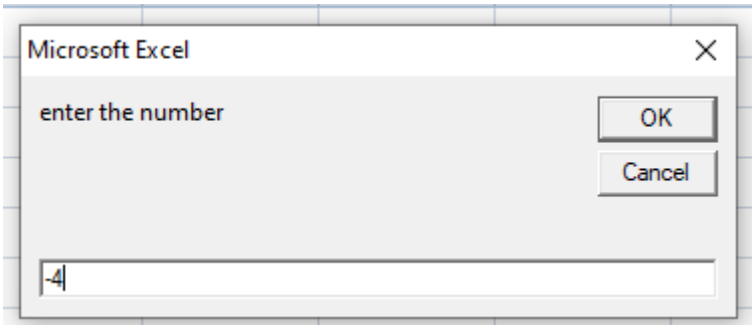
PRACTICAL NO.-10

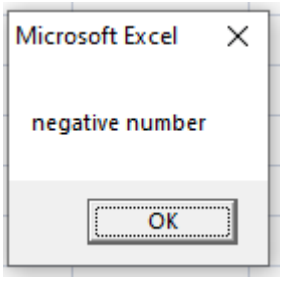
AIM- Write a program in VBA to find entered number is Positive number or Negative number.

PROGRAM CODE-

```
Sub dinesh()

Dim a As Variant

a = InputBox("enter the number")

If (a > 0) Then

MsgBox ("positive number")

Else

MsgBox ("negative number")

End If

End Sub
```

OUTPUT-





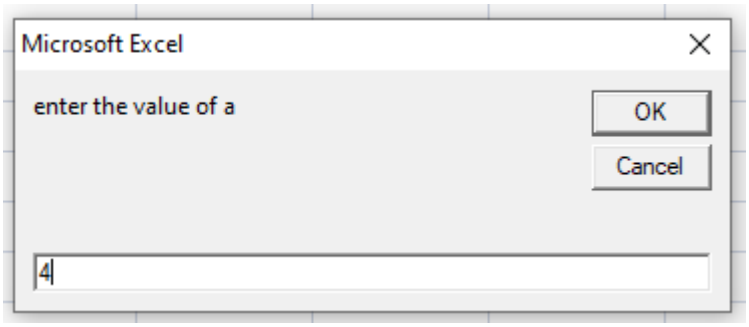
PRACTICAL NO.-11

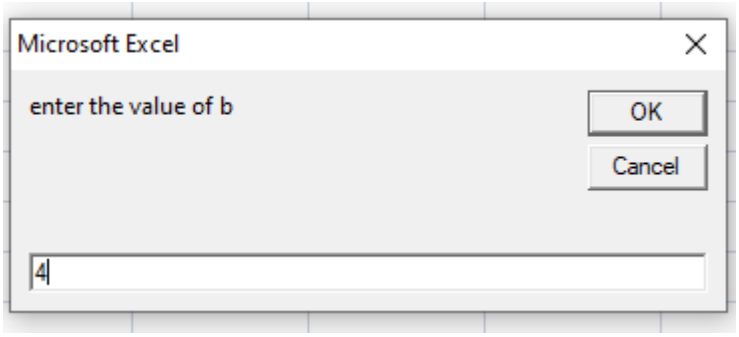
AIM- Write a program in VBA to calculate addition, substraction, multiplication and division using switch statement .

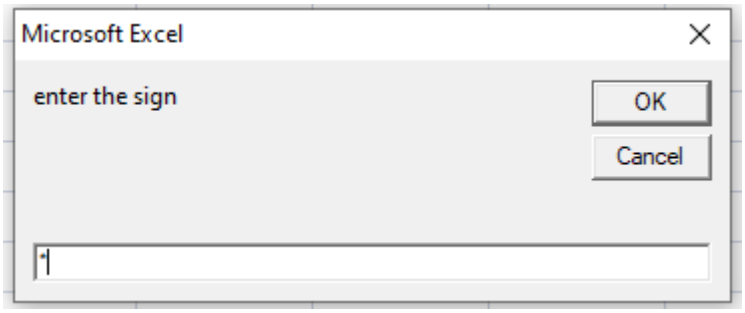
PROGRAM CODE-

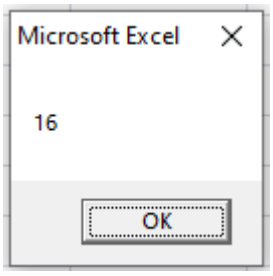
```
Sub maths()
Dim a, b As Double
Dim c As Variant
a = InputBox("enter the value of a")
b = InputBox("enter the value of b")
c = InputBox("enter the sign")
Select Case c
Case "+"
c = a + b
MsgBox ("addition of given values=" & c)
Case "-"
c = a - b
MsgBox ("substraction of given values=" & c)
Case "*"
c = a * b
MsgBox ("multiplication of given values=" & c)
Case "/"
c = a / b
MsgBox ("division of given values=" & c)
End Select
End Sub
```

OUTPUT-


Microsoft Excel
enter the value of a
OK
Cancel
4


Microsoft Excel
enter the value of b
OK
Cancel
4


Microsoft Excel
enter the sign
OK
Cancel
*


Microsoft Excel
16
OK

PRACTICAL NO.-12

AIM- Write a program in VBA to find total, percentage, result and class as per the given conditions.

PROGRAM CODE-

```
Sub dinesh()
Dim tm, ss, pm, sm, sum, total As Integer
Dim percentage As Double
Dim result, class As String
tm = 30
ss = 50
pm = 80
sm = 10
total = 200
sum = tm + ss + pm + sm
MsgBox ("total=" & sum)
percentage = sum / total * 100
MsgBox ("percentage=" & percentage)
If (sm >= 12 And ss >= 17 And pm >= 60) Then
result = "pass"
MsgBox ("result=" & result)
Else
result = "fail"
MsgBox ("result=" & result)
End If
If (percentage > 75) Then
class = "distinction"
MsgBox ("class=" & class)
```

ElseIf (percentage < 75 And percentage > 60) Then

class = "fist"

MsgBox ("class=" & class)

ElseIf (percentage <= 60 And percentage >= 45) Then

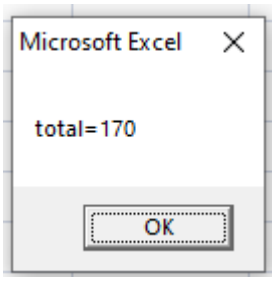
class = "pass"

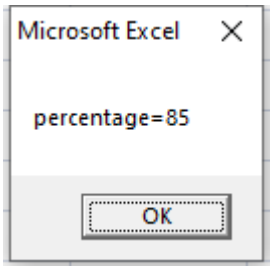
MsgBox ("class=" & class)

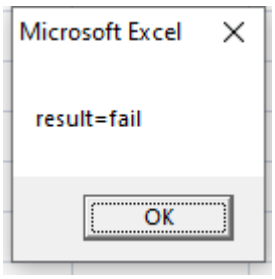
End If

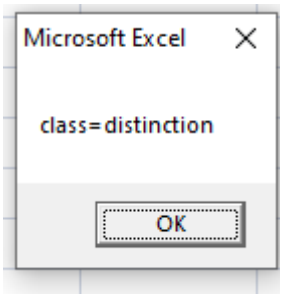
End Sub

<u>OUTPUT-</u>









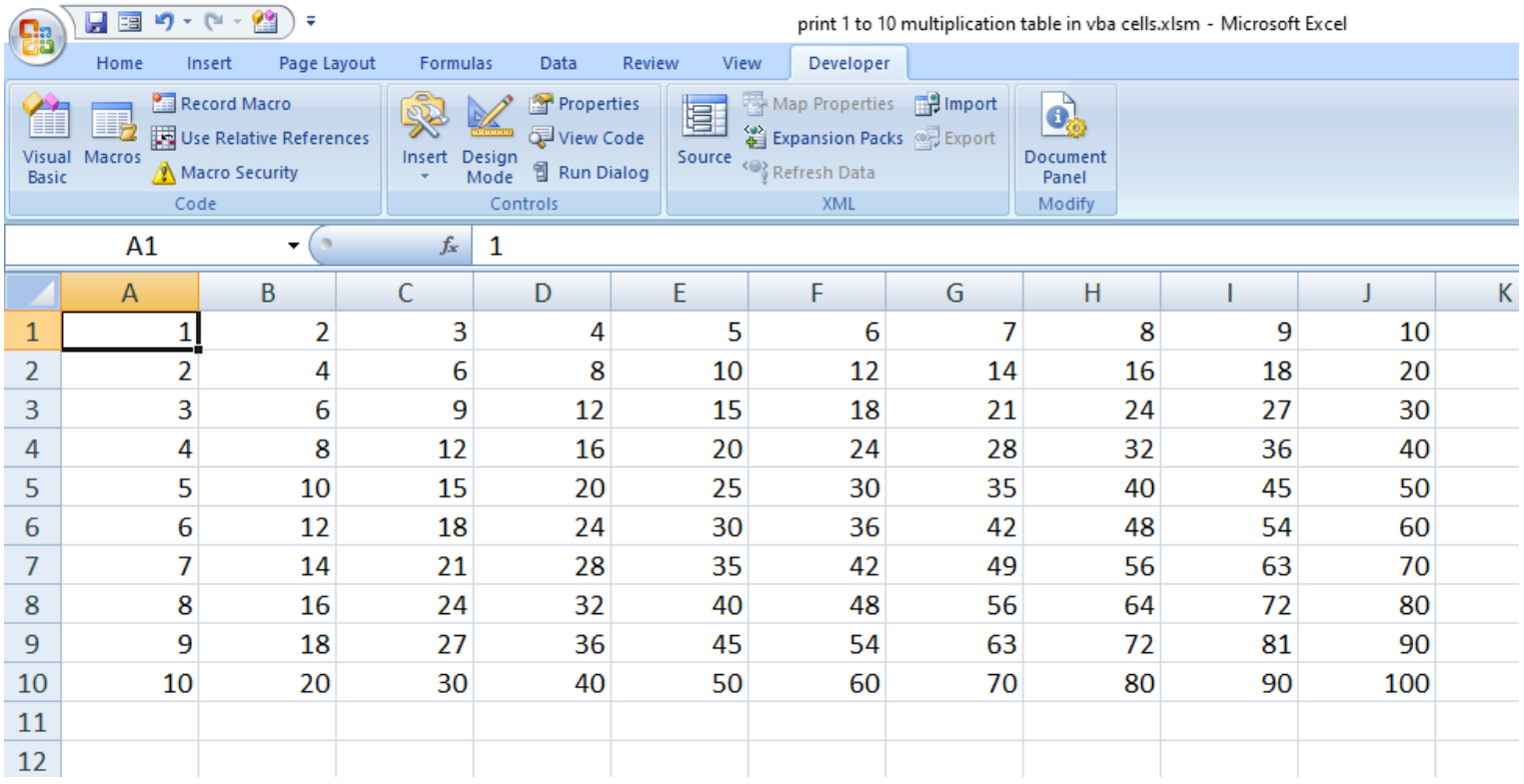
PRACTICAL NO.-13

AIM- Write a program in VBA to print multiplication table in current worksheet.

PROGRAM CODE-

```
Sub multiplication()
For i = 1 To 10
For j = 1 To 10
Cells(i, j).Value = i * j
Next
Next
End Sub
```

OUTPUT-



	A	B	C	D	E	F	G	H	I	J
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100
11										
12										

PRACTICAL NO.-14

AIM- Write a program in VBA to print numbers 1 to 10.

PROGRAM CODE-

```
Sub forloop1()
For i = 1 To 10
Debug.Print i
Next
End Sub
```

OUTPUT-

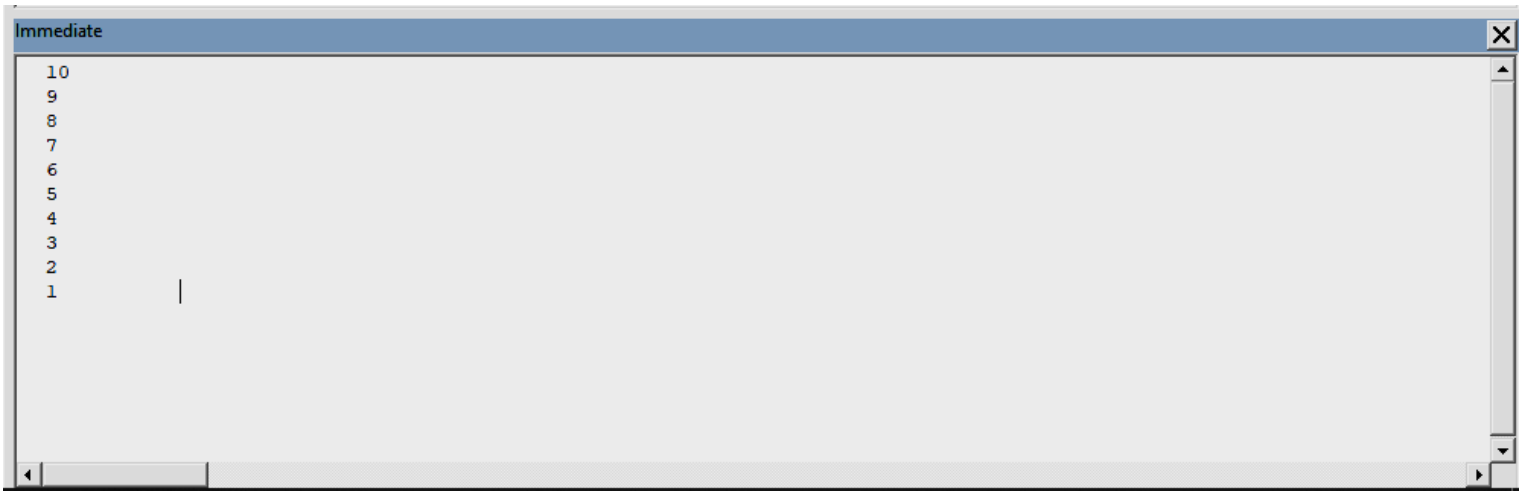
PRACTICAL NO.-15

AIM- Write a program in VBA to print numbers 10 to 1.

PROGRAM CODE-

```
Sub untildemo()
Dim i As Integer
i = 10
Do
Debug.Print i
i = i -1
Loop While i =10
End Sub
```

OUTPUT-



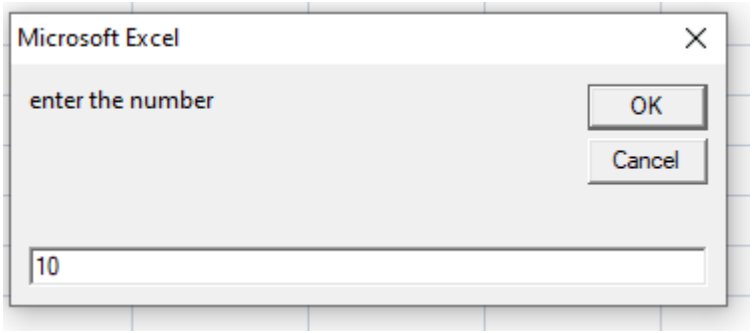
PRACTICAL NO.-16

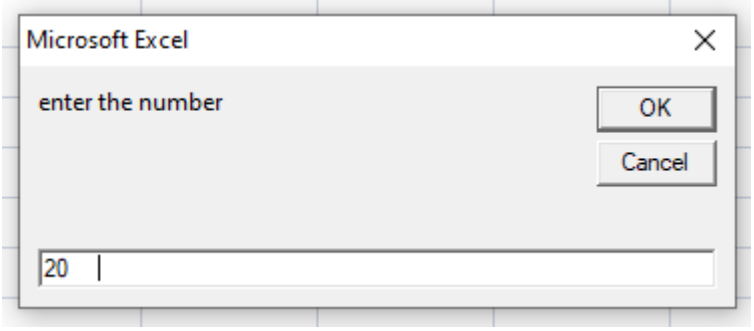
AIM- Write a program in VBA to add any five numbers using user input & loop.

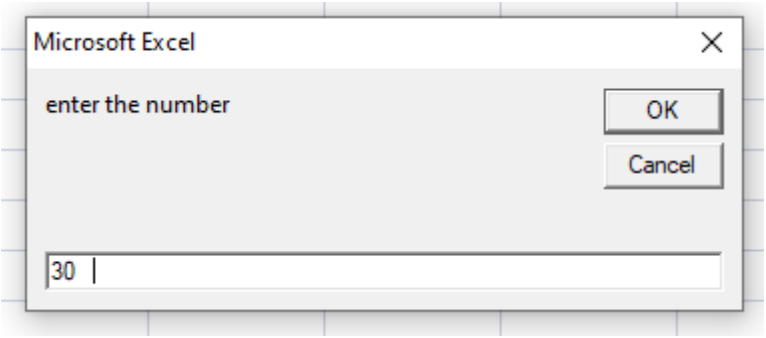
PROGRAM CODE-

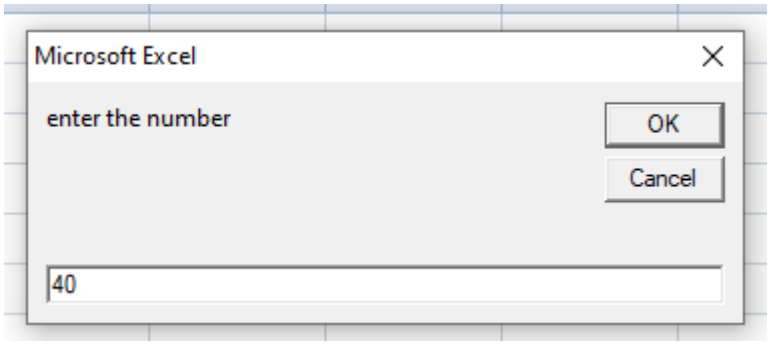
```
Sub addition()
Dim a As Integer
Dim total As Integer
total = 0
For i = 1 To 5
a = InputBox("enter the number")
total = total + a
Next i
MsgBox (total)
End Sub
```

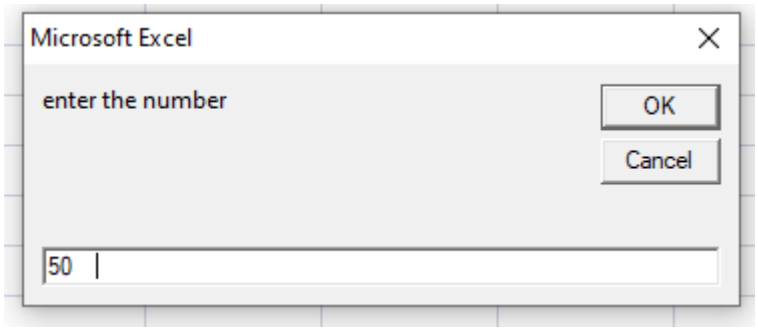
OUTPUT-

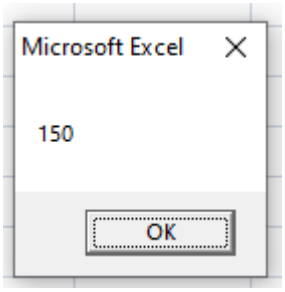





Microsoft Excel
enter the number
OK
Cancel
30


Microsoft Excel
enter the number
OK
Cancel
40


Microsoft Excel
enter the number
OK
Cancel
50


Microsoft Excel
150
OK

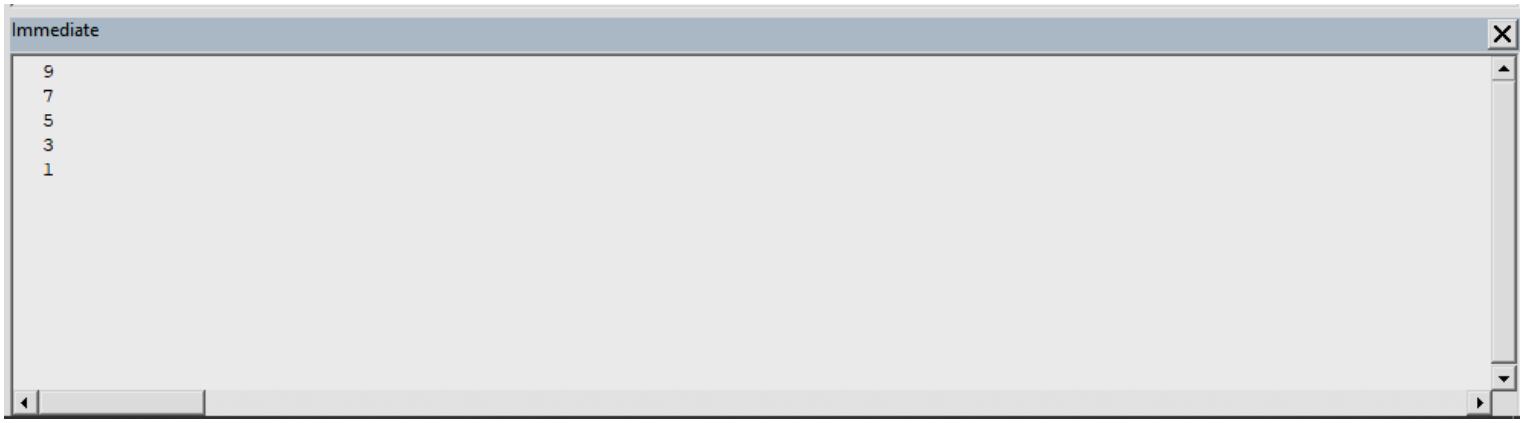
PRACTICAL NO.-17

AIM- Write a program in VBA to print odd numbers between 1 to 10 reverse order.

PROGRAM CODE-

```
Sub dinesh()
Dim i As Integer
For i = 10 To 1 Step -1
If (i Mod 2 <> 0) Then
Debug.Print i
End If
Next
End Sub
```

OUTPUT-



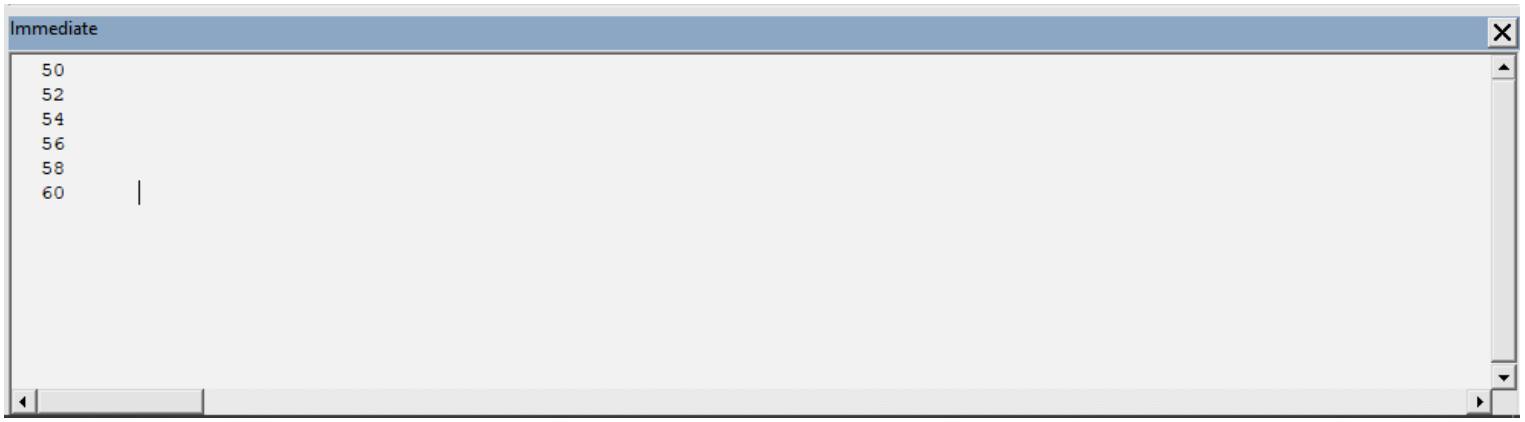
PRACTICAL NO.-18

AIM- Write a program in VBA to print even numbers between 50 to 60.

PROGRAM CODE-

```
Sub even()
For i = 50 To 60 Step 2
Debug.Print i
Next
End Sub
```

OUTPUT-



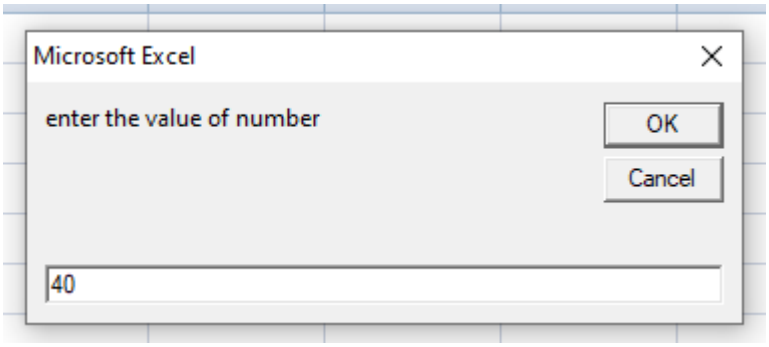
PRACTICAL NO.-19

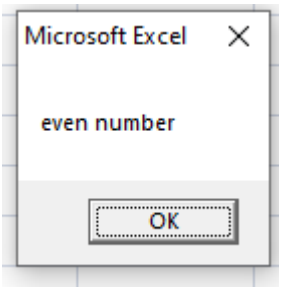
AIM- Write a program in VBA to find given number is odd or even number using function.

PROGRAM CODE-

```
Function even_or_odd(a As Integer)
If a Mod 2 = o Then
MsgBox ("even number")
Else
MsgBox ("odd number")
End If
End Function

Sub even_or_odd1()
Dim b As Integer
b = InputBox("enter the value of number")
Debug.Print even_or_odd(b)
End Sub
```

OUTPUT-





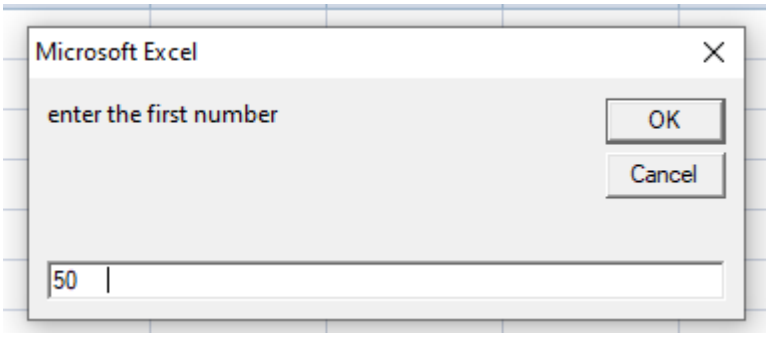
PRACTICAL NO.-20

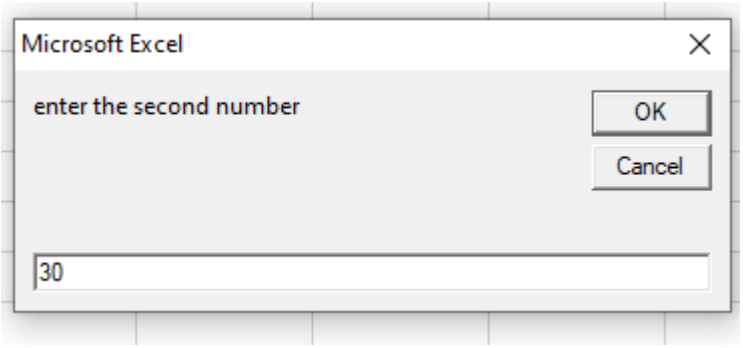
AIM- Write a program in VBA to find greatest number in given number using function.

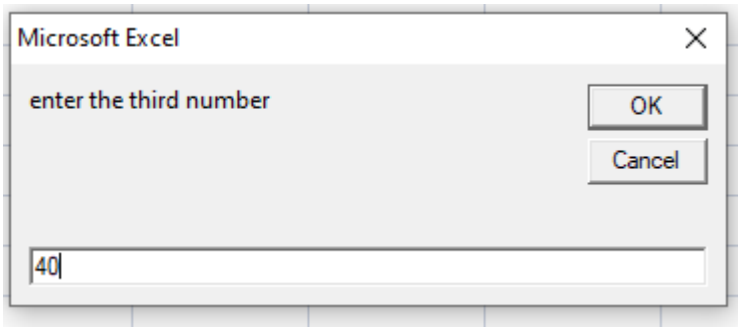
PROGRAM CODE-

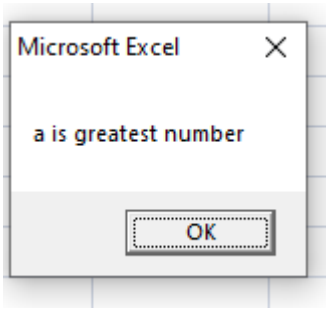
```
Function greatest(a As Integer, b As Integer, c As Integer)
If (a > b & a > c) Then
MsgBox ("a is greatest number")
ElseIf (b > a & b > c) Then
MsgBox ("b is greatest number")
Else
MsgBox ("c is greatest number")
End If
End Function

Sub greatest1()
Dim x As Integer
Dim y As Integer
Dim z As Integer
x = InputBox("enter the first number")
y = InputBox("enter the second number")
z = InputBox("enter the third number")
Debug.Print greatest(x, y, z)
End Sub
```

OUTPUT-


Microsoft Excel
enter the first number
OK
Cancel
50


Microsoft Excel
enter the second number
OK
Cancel
30


Microsoft Excel
enter the third number
OK
Cancel
40


Microsoft Excel
a is greatest number
OK

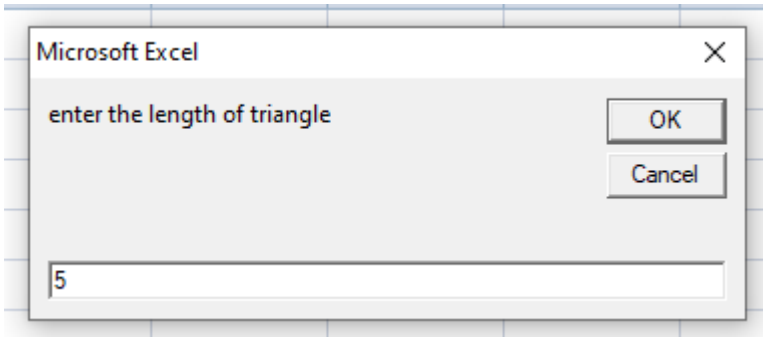
PRACTICAL NO.-21

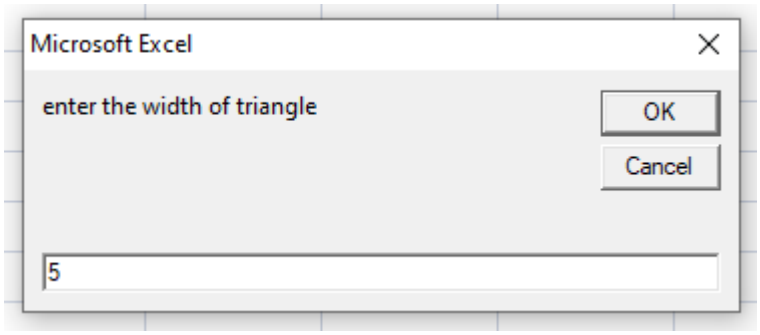
AIM- Write a program in VBA to find out triangle is equilateral, Isosceles, or Scalene using function.

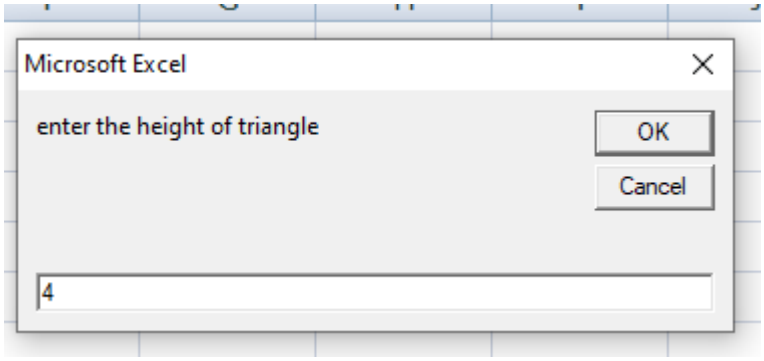
PROGRAM CODE-

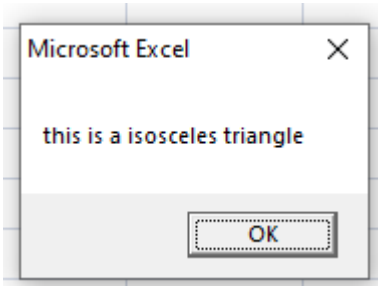
```
Function types_of_triangle(a As Integer, b As Integer, c As Integer)
If (a = b And a = c) Then
MsgBox ("this is a equaliteral triangle")
ElseIf (a <> b And b <> c And a <> c) Then
MsgBox ("this is a scelene triangle")
Else
MsgBox ("this is a isosceles triangle")
End If
End Function

Sub triangles()
Dim x As Integer
Dim y As Integer
Dim z As Integer
x = InputBox("enter the length of triangle")
y = InputBox("enter the width of triangle")
z = InputBox("enter the height of triangle")
Debug.Print types_of_triangle(x, y, z)
End Sub
```

OUTPUT-


Microsoft Excel
enter the length of triangle
OK
Cancel
5


Microsoft Excel
enter the width of triangle
OK
Cancel
5


Microsoft Excel
enter the height of triangle
OK
Cancel
4


Microsoft Excel
this is a isosceles triangle
OK

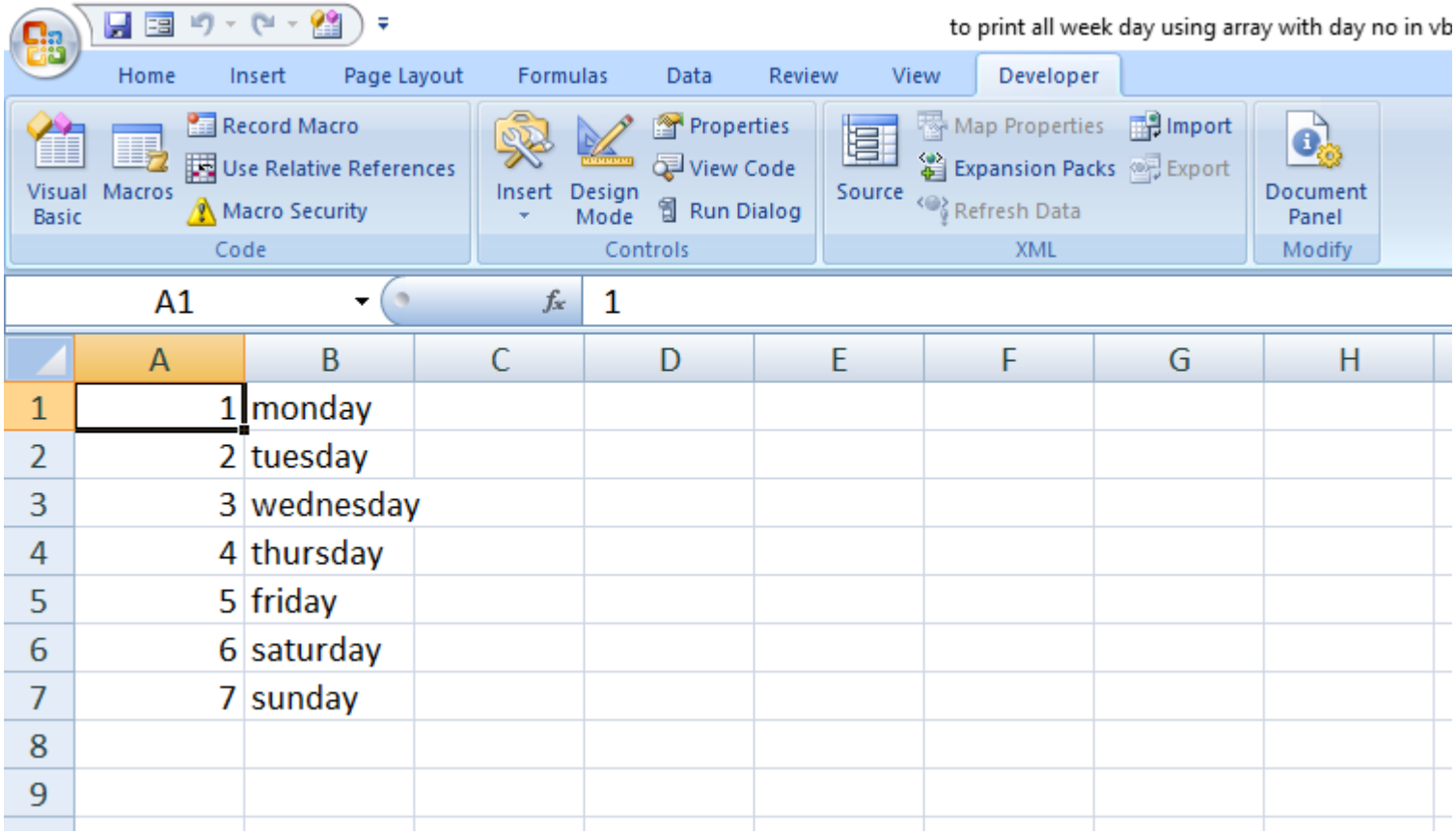
PRACTICAL NO.-22

AIM- Write a program in VBA to print all week days using array week day number.

PROGRAM CODE-

```
Sub array2()

Dim a1

a1 = Array("monday", "tuesday", "wednesday", "thursday", "friday", "saturday",
"sunday")

For i = 0 To UBound(a1) Step 1

Cells(i + 1, 1).Value = i + 1

Cells(i + 1, 2).Value = a1(i)

Next

End Sub
```

OUTPUT-



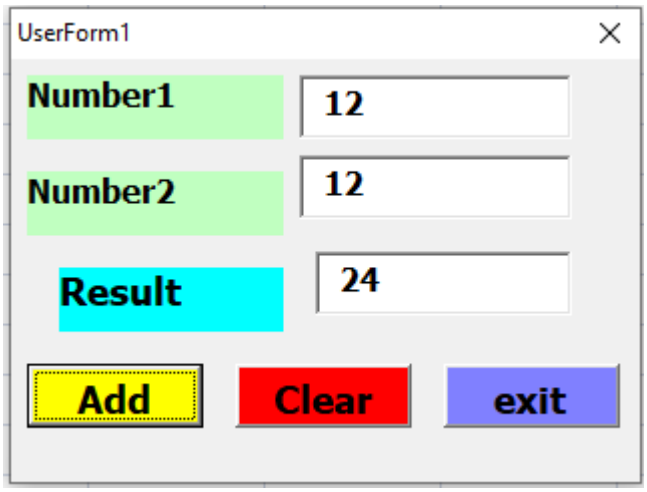
PRACTICAL NO.-23

AIM- Write a program in VBA to add two numbers using userform.

PROGRAM CODE-

```
Option Explicit


Private Sub CommandButton1_Click()
txtresult.Text = Val(txtnumber1.Text) + Val(txtnumber2.Text)
End Sub


Private Sub CommandButton2_Click()
txtnumber1 = " "
txtnumber2 = " "
txtresult = " "
End Sub


Private Sub CommandButton3_Click()
Unload Me
End Sub
```

OUTPUT-



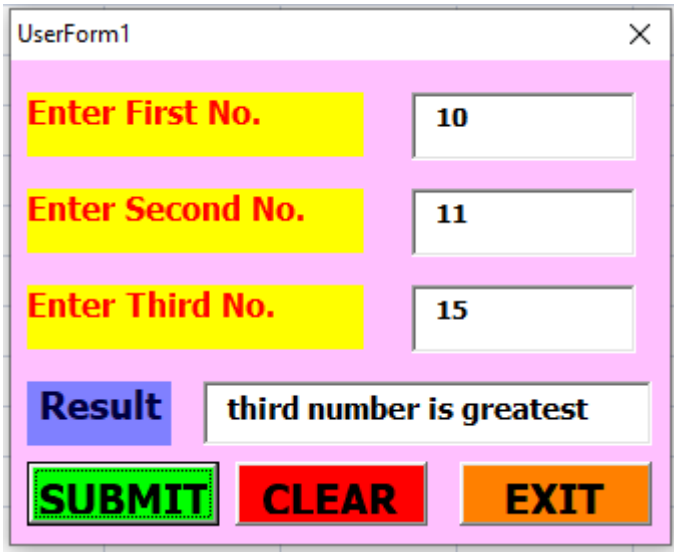
PRACTICAL NO.-24

AIM- Write a program in VBA to find greatest number using user form.

PROGRAM CODE-

```
Private Sub CommandButton1_Click()
If (txtfirst > txtsecond And txtfirst > txtthird) Then
txtresult.Text = ("first number is greatest")
ElseIf (txtsecond > txtfirst And txtsecond > txtthird) Then
txtresult.Text = ("second number is greatest")
Else
txtresult.Text = ("third number is greatest")
End If
End Sub

Private Sub CommandButton2_Click()
txtfirst = " "
txtsecond = " "
txtthird = " "
txtresult = " "
End Sub

Private Sub CommandButton3_Click()
Unload Me
End Sub
```

OUTPUT-


UserForm1
Enter First No.
10
Enter Second No.
11
Enter Third No.
15
Result
third number is greatest
SUBMIT
CLEAR
EXIT

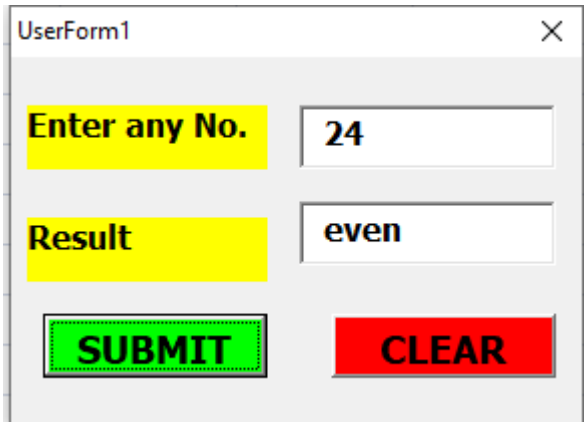
PRACTICAL NO.-25

AIM- Write a program in VBA to to find odd or even number using user form.

PROGRAM CODE-

```
Option Explicit


Private Sub CommandButton1_Click()


If (txtno Mod 2 = 0) Then
txtresult.Text = ("even")
Else
txtresult.Text = ("odd")
End If
End Sub


Private Sub CommandButton2_Click()
txtno = " "
txtresult = " "
End Sub
```

OUTPUT-



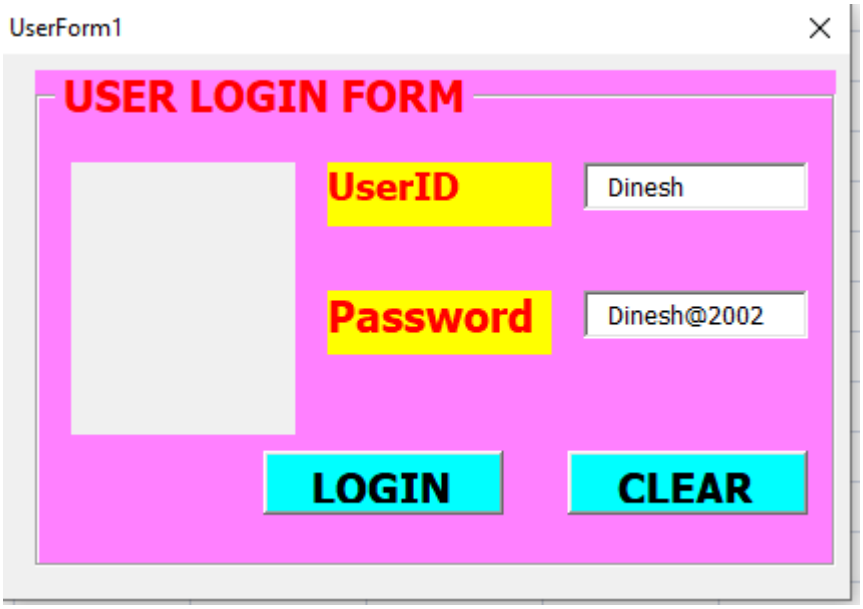
PRACTICAL NO.-26

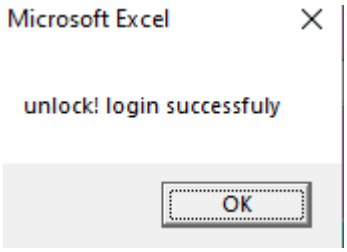
AIM- Write a program in VBA to to create login form using user form .

PROGRAM CODE-

```
Private Sub CommandButton1_Click()

If txtuserid = "Dinesh" And txtpassword = "123456" Or txtuserid = "Amit" And
txtpassword = "654321" Then

MsgBox ("unlock! login successfuly")

Else

MsgBox ("please try again later")

End If

End Sub


Private Sub CommandButton2_Click()

txtuserid = " "

txtpassword = " "

End Sub
```

OUTPUT-





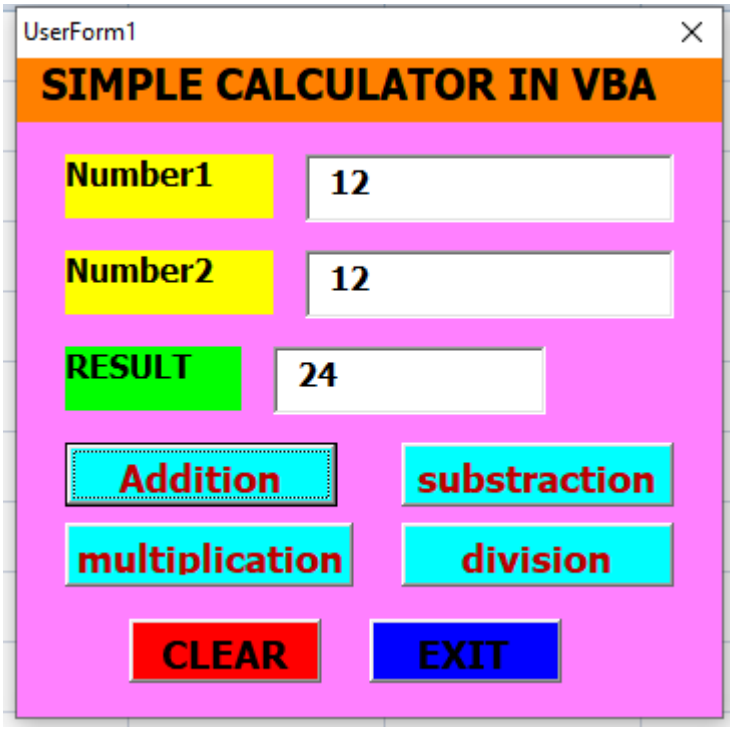
PRACTICAL NO.-27

AIM- Write a program in VBA to create a simple calculator using user form .

PROGRAM CODE-

```
Private Sub CommandButton1_Click()
txtresult.Text = Val(txtnumber1.Text) + Val(txtnumber2.Text)
End Sub

Private Sub CommandButton2_Click()
txtresult.Text = Val(txtnumber1.Text) - Val(txtnumber2.Text)
End Sub

Private Sub CommandButton3_Click()
txtresult.Text = Val(txtnumber1.Text) / Val(txtnumber2.Text)
End Sub
Private Sub CommandButton4_Click()
txtresult.Text = Val(txtnumber1.Text) * Val(txtnumber2.Text)
End Sub

Private Sub CommandButton5_Click()
txtnumber1 = " "
txtnumber2 = " "
txtresult = " "
End Sub

Private Sub CommandButton6_Click()
Unload Me
End Sub
```

OUTPUT-


UserForm1
SIMPLE CALCULATOR IN VBA
Number1
12
Number2
12
RESULT
24
Addition
substraction
multiplication
division
CLEAR
EXIT

PRACTICAL NO.-28

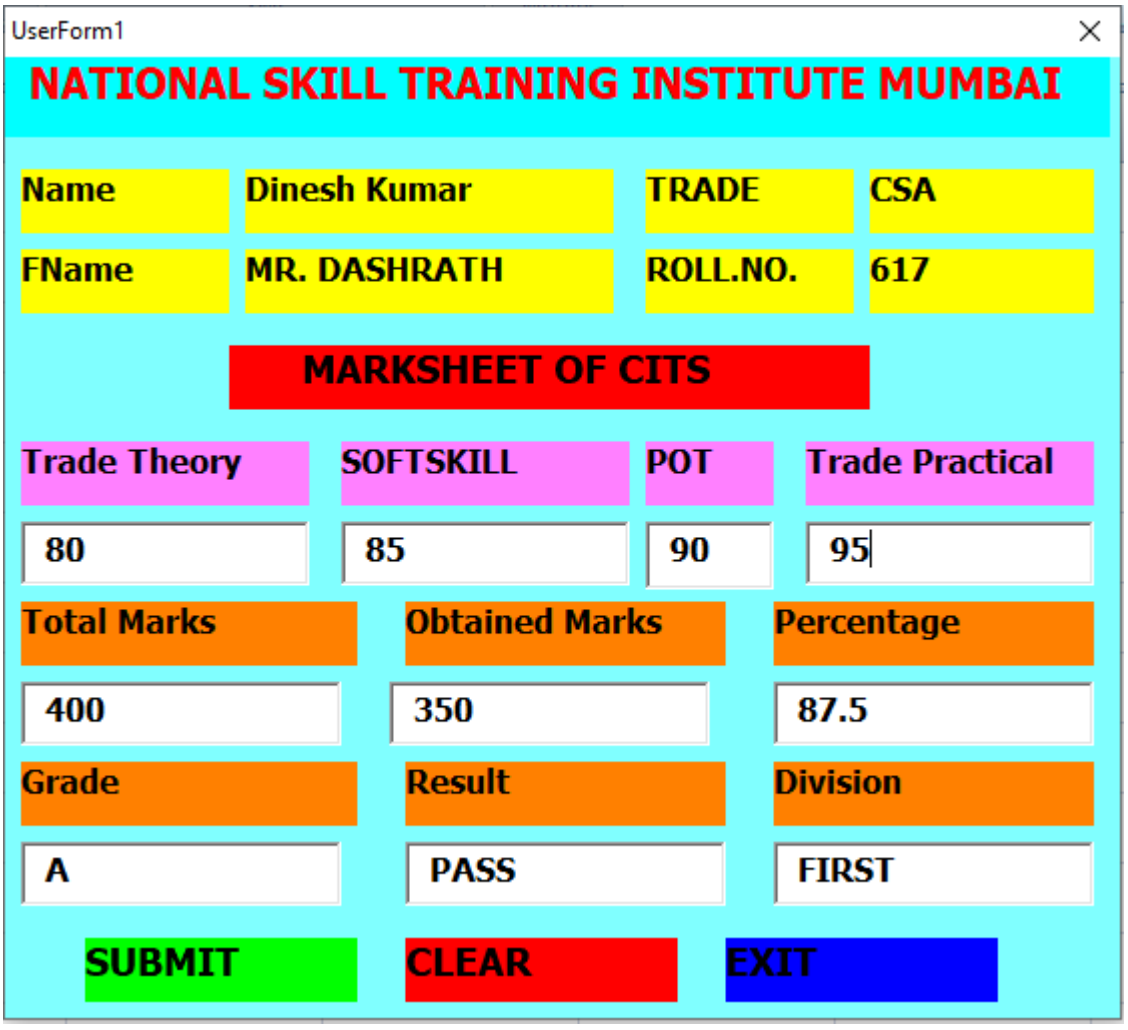
AIM- Write a program in VBA to calculate marksheet using user form.

PROGRAM CODE-

```
Private Sub Label19_Click()
txttotal = 400
txtobtained.Text = Val(txttt.Text) + Val(txtss.Text) + Val(txtpot.Text) + Val(txttp.Text)
txtpercentage.Text = Val(txtobtained.Text) / 4
If (txtpercentage >= 80) Then
txtgrade.Text = "A"
txtdivision.Text = "FIRST"
txtresult.Text = "PASS"
ElseIf (txtpercentage >= 60) Then
txtgrade.Text = "B"
txtdivision.Text = "SECOND"
txtresult.Text = "PASS"
ElseIf (txtpercentage >= 33) Then
txtgrade.Text = "C"
txtdivision.Text = "THIRD"
txtresult.Text = "PASS"
Else
txtgrade.Text = "D"
txtdivision.Text = "FAILED"
txtresult.Text = "FAIL"
End Sub
Private Sub Label20_Click()
txttt = " "
txtss = " "
```

```
txtpot = " "
txttp = " "
txttotal = " "
txtresult = " "
txtdivision = ""
txtgrade = ""
txtpercentage = ""
txtobtained = ""
End Sub
Private Sub Label21_Click()
Unload Me
End Sub
```

OUTPUT-



PRACTICAL NO.-28

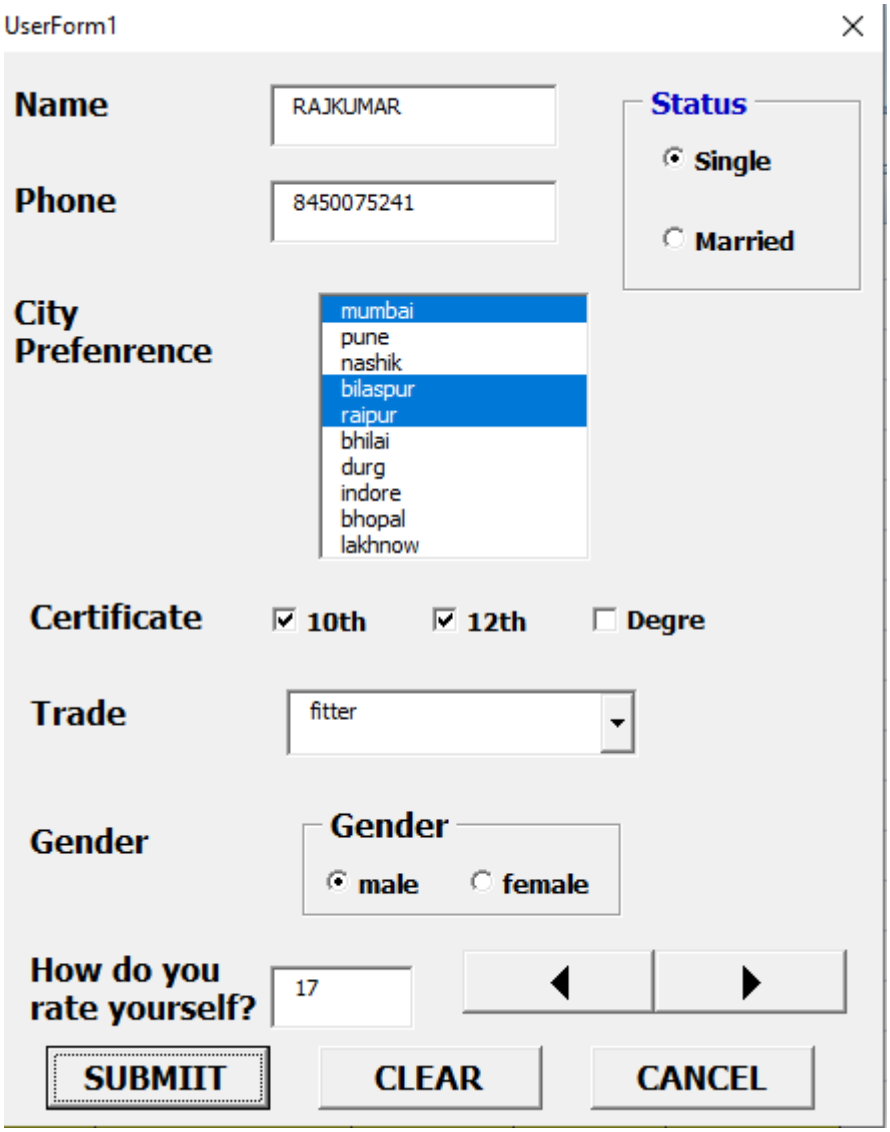
AIM- Write a program in VBA to use all form controls using user form.

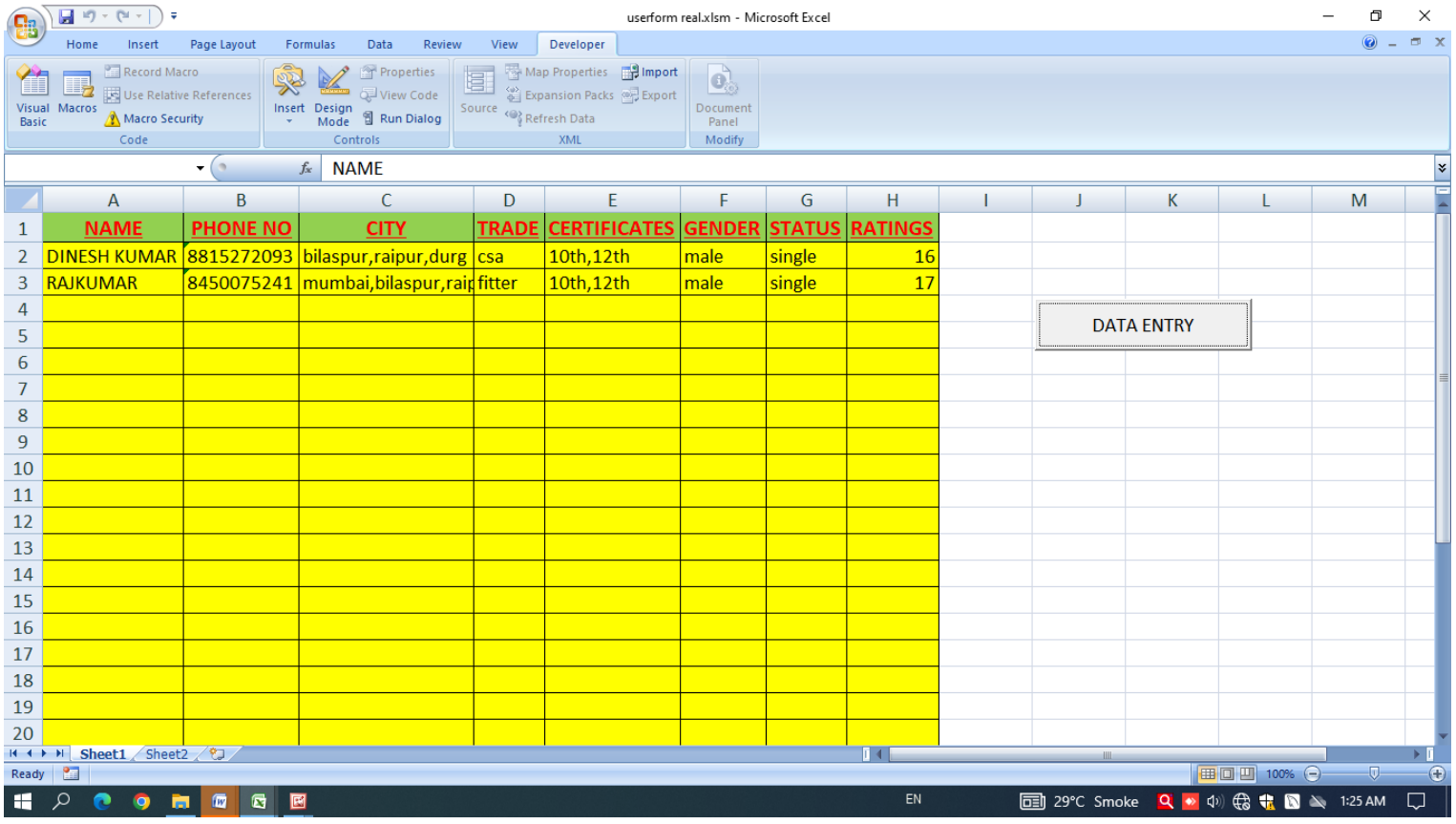
PROGRAM CODE-

```
Private Sub CommandButton1_Click()
Dim myvar As String
Dim x As Double
Dim dcc As Long
Dim abc As Worksheet
Set abc = Worksheets("sheet1")
dcc = Sheets("sheet1").Range("a" & Rows.Count).End(xlUp).Row
With abc
.Cells(dcc + 1, 1).Value = Me.txtname.Value
.Cells(dcc + 1, 2).Value = Me.txtphone.Value
.Cells(dcc + 1, 4).Value = Me.ComboBox1.Value
.Cells(dcc + 1, 3).Value = Me.ListBox1.Value
myvar = " "
For x = 0 To Me.ListBox1.ListCount - 1
If Me.ListBox1.Selected(x) Then
If myvar = " " Then
myvar = Me.ListBox1.List(x, 0)
Else
myvar = myvar & "," & Me.ListBox1.List(x, 0)
End If
End If
Next x
.Cells(dcc + 1, 3).Value = myvar
Me.Hide

.Cells(dcc + 1, 8).Value = Me.TextBox1.Value
If UserForm1.CheckBox1.Value = True Then
.Cells(dcc + 1, 5).Value = "10th"

ElseIf UserForm1.CheckBox2.Value = True Then
.Cells(dcc + 1, 5).Value = "12th"

ElseIf UserForm1.CheckBox3.Value = True Then
.Cells(dcc + 1, 5).Value = "degree"
End If
If CheckBox1.Value = True And CheckBox2.Value = True Then
```

```
.Cells(dcc + 1, 5).Value = CheckBox1.Caption & "," & CheckBox2.Caption
End If
If CheckBox2.Value = True And CheckBox3.Value = True Then
.Cells(dcc + 1, 5).Value = CheckBox2.Caption & "," & CheckBox3.Caption
End If
If CheckBox1.Value = True And CheckBox3.Value = True Then
.Cells(dcc + 1, 5).Value = CheckBox1.Caption & "," & CheckBox3.Caption
End If
If CheckBox1.Value = True And CheckBox2.Value = True And CheckBox3.Value Then
.Cells(dcc + 1, 5).Value = CheckBox1.Caption & "," & CheckBox2.Caption & "," &
CheckBox3.Caption
End If
If UserForm1.OptionButton3.Value = True Then
.Cells(dcc + 1, 6).Value = "male"
Else
.Cells(dcc + 1, 6).Value = "female"
End If
If UserForm1.OptionButton1.Value = True Then
.Cells(dcc + 1, 7).Value = "single"
Else
.Cells(dcc + 1, 6).Value = "married"
End If
End With
End Sub

Private Sub CommandButton2_Click()
Unload UserForm1
UserForm1.Show
End Sub

Private Sub CommandButton3_Click()
Unload UserForm1
End Sub

Private Sub SpinButton1_Change()
Me.TextBox1.Value = Me.SpinButton1.Value
End Sub
```

OUTPUT-


UserForm1
Name
RAJKUMAR
Phone
8450075241
Status
Single
Married
City Prefenrence
mumbai
pune
nashik
bilaspur
raipur
bhilai
durg
indore
bhopal
lakhnow
Certificate
10th
12th
Degre
Trade
fitter
Gender
Gender
male
female
How do you rate yourself?
17
SUBMIIT
CLEAR
CANCEL


userform real.xlsm - Microsoft Excel
Home
Insert
Page Layout
Formulas
Data
Review
View
Developer
Visual Basic
Macros
Record Macro
Use Relative References
Macro Security
Code
Insert
Design Mode
Properties
View Code
Run Dialog
Controls
Source
Map Properties
Expansion Packs
Refresh Data
Import
Export
XML
Document Panel
Modify
NAME
NAME
PHONE NO
CITY
TRADE
CERTIFICATES
GENDER
STATUS
RATINGS
DINESH KUMAR
8815272093
bilaspur,raipur,durg
csa
10th,12th
male
single
16
RAJKUMAR
8450075241
mumbai,bilaspur,rai
fitter
10th,12th
male
single
17
DATA ENTRY
Sheet1
Sheet2
Ready
100%
EN
29°C Smoke
1:25 AM