

PROGRAM 1: SIMPLE CALCULATOR

Option Explicit

Dim operand1 As Double, operand2 As Double

Dim op1 As Double, op2 As Double

Dim operator As String

Dim cleardisplay As Boolean

Private Sub Cmdclear_Click()

Display.Caption = ""

End Sub

Private Sub Cmddiv_Click()

op1 = Val(Display.Caption)

opreator = "/"

Display.Caption = ""

End Sub

Private Sub Cmddot_Click()

If Instr(Display.Caption = ".") Then

Exit Sub

Else

Display.Caption = Display.Caption + "."

End If

End Sub

2

Private Sub Cmdinto_Click()

op1 = Val(Display.Caption)

opeartor = "*"

```
Display.Caption = ""
```

```
End Sub
```

```
Private Sub Cmdequal_Click()
```

```
Dim result As Double
```

```
op2 = Val(Display.Caption)
```

```
If operator = "+" Then
```

```
result = add(ByVal op1, ByVal op2)
```

```
End If
```

```
If operator = "-" Then
```

```
result = subtract(ByVal op1, ByVal op2)
```

```
End If
```

```
If operator = "*" Then
```

```
result = mul(ByVal op1, ByVal op2)
```

```
End If
```

```
If operator = "/" Then
```

```
result = div(ByVal op1, ByVal op2)
```

```
End If
```

```
Display.Caption = result
```

3

```
End Sub
```

```
Private Sub Cmdminus_Click()
```

```
op1 = Val(Display.Caption)
```

```
operator = "-"
```

```
Display.Caption = ""
```

```
End Sub
```

```
Private Sub Cmdplus_Click()
```

```
op1 = Val(Display.Caption)
```

```
operator = "+"
```

```
Display.Caption = ""
```

```
End Sub
```

```
Private Function add(ByVal operand1 As Double, ByVal operand2 As Double) As Double
```

```
add = operand1 + operand2
```

```
End Function
```

```
Private Sub digit_click(index As Integer)
```

```
If cleardisplay Then
```

```
Display.Caption = ""
```

```
cleardisplay = False
```

```
End If
```

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```
Display.Caption = Display.Caption + Digit(index).Caption
```

```
End Sub
```

```
Private Function subtract(ByVal operand1 As Double, ByVal operand2 As Double) As Double
```

```
subtract = operand1 - operand2
```

```
End Function
```

```
Private Function mul(ByVal operand1 As Double, ByVal operand2 As Double) As Double
```

```
mul = operand1 * operand2
```

```
End Function
```

```
Private Function div(ByVal operand1 As Double, ByVal operand2 As Double) As Double
```

```
div = operand1 / operand2
```

```
End Function
```

PROGRAM 2 : Checkbox

```
Private Sub cmdclose_Click()
```

```
Unload Me
```

```
End Sub
```

```
Private Sub cmddone_Click()
```

```
lblsports.Caption = " you selected "
```

```
If chkcricket.Value = vbChecked Then
```

```
lblsports.Caption = lblsports.Caption + " cricket; "
```

```
End If
```

```
If chktennis.Value = vbChecked Then
```

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```
lblsports.Caption = lblsports.Caption + " tennis; "
```

```
End If
```

```
If chkswim.Value = vbChecked Then
```

```
lblsports.Caption = lblsports.Caption + " swimming; "
```

```
End If
```

```
If chkswim = 0 And chkcricket = 0 And chktennis = 0 Then
```

```
lblsports.Caption = lblsports.Caption + " NONE "
```

```
End If
```

```
End Sub
```

PROGRAM 3 : Combo box

```
Private Sub updatelabel()
```

```
lblstatus Private Sub cmdadd_Click()
```

```
If txtinput <> "" Then
```

```
cbobooks.AddItem txtinput
```

```
cbobooks = txtinput
```

```
Call updatelabel
```

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```
txtinput = ""
```

```
Else
```

```
MsgBox "no input please!!"
```

```
End If
```

```
txtinput.SetFocus
```

```
End Sub
```

```
Private Sub cmdclear_Click()
```

```
cbobooks.Clear
```

```
Call updatelabel
```

```
End Sub
```

```
Private Sub cmdexit_Click()
```

```
Unload Me
```

```
End Sub
```

```
Private Sub cmdremove_Click()
```

```
If cbobooks.ListCount > 0 Then
```

```
cbobooks.RemoveItem (cbobooks.ListIndex)
```

```
cbobooks = cbobooks.List(0)
```

```
Call updatelabel
```

```
Else
```

```
MsgBox "BOOK LIST IS EMPTY"
```

```
End If
```

```
.Caption = "list count = " & cbobooks.ListCount
```

7

```
End Sub
```

```
Private Sub cbobooks_lostfocus()
```

```
Call updatelabel
```

```
End Sub
```

```
Private Sub form_load()
```

```
Call updatelabel
```

```
End Sub
```

PROGRAM 4: Encrypt and decrypt

```
Dim encrypt As String
```

```
Dim decrypt As String
```

```
Dim keyval As Integer
```

```
Dim rnum As Integer
```

```
Private Sub cmddecrypt_Click()
```

```
Dim i As Integer
```

8

```
Dim keyalpha As String
```

```
decrypt = ""
```

```
For i = 1 To Len(encrypt)
```

```
keyalpha = Mid(encrypt, i, 1)
```

```
keyalpha = Chr(Asc(keyalpha) - rnum)
```

```
decrypt = decrypt + keyalpha
```

```
Next
```

```
txtmesg = decrypt
```

```
txtmesg.Enabled = False
```

```
cmdencrypt.Enabled = False
```

```
cmddecrypt.Enabled = False
```

```
cmdexit.SetFocus
```

```
End Sub
```

```
Private Sub cmdencrypt_Click()
```

```
txtmesg = encrypt
```

```
txtmesg.Enabled = False
cmdencrypt.Enabled = False
cmddecrypt.Enabled = True
End Sub
```

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

```
Private Sub Form_Load()
encrypt = ""
decrypt = ""
txtmesg = ""
Randomize
rnum = (10 * Rnd + 1)
End Sub
```

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```
Private Sub txtmesg_keypress(keyascii As Integer)
If (keyascii >= 65 And keyascii <= 90) Or (keyascii >= 97 And keyascii <= 122) Or keyascii = 32 Then
keyval = keyascii + rnum
encrypt = encrypt + Chr(keyval)
Else
keyascii = 0
End If
End Sub
```

PROGRAM 5 : Digital clock

```
Private Sub Form_Load() 10
```

```
Timer1.Interval = 500
```

```
End Sub
```

```
Private Sub Timer1_Timer()
```

```
Dim str As String
```

```
str = Time
```

```
If Mid(lblclock, 3, 1) = ":" Then
```

```
Mid$(str, 3, 1) = ""
```

```
Mid$(str, 6, 1) = ""
```

```
Mid$(str, 8, 1) = ""
```

```
End If
```

```
lblclock = str
```

```
End Sub
```

PROGRAM 6 : Option button

```
Private Sub cmdexit_Click()
```

```
Unload Me
```

```
End Sub
```

```
Private Sub cmdok_Click()
```

```
If optorange.Value = True Then
```

```
lblmessage.Caption = "orange juice " 11
```

```
Elseif optlemon Then
```

```
lblmessage.Caption = "lemon juice"
```

```
Elseif optapple Then
```

```
lblmessage.Caption = "apple juice"
```



```
ElseIf optpineapple Then
lblmessage.Caption = "pineapple juice "
End If
End Sub
```

PROGRAM 7 : Progress bar

```
Private Sub Timer1_Timer()
If prgbar.Value >= 100 Then
Timer1.Enabled = False
Else
prgbar.Value = prgbar.Value + 1
label1.Caption = prgbar.Value
End If
End Sub
```

PROGRAM 8: Vending machine

```
Private Sub cmdbill_Click()
cmdbill.Enabled = False
If txtno = "" Then
MsgBox "Please enter the snack number"
txtno.SetFocus
Exit Sub
End If
frabill.Visible = True
If txtno = 1 Then
lblname.Caption = "Dry fruits"
lblamt.Caption = 160
```

```
ElseIf txtno = 2 Then
lblname.Caption = "Burfi"
lblamt.Caption = 200
ElseIf txtno = 3 Then
lblname.Caption = "Obattu"
lblamt.Caption = 60
ElseIf txtno = 4 Then
lblname.Caption = "Rasgulla"
lblamt.Caption = 250
Else
MsgBox "Snack does not exist"
txtno = ""
txtno.SetFocus
End If
End Sub

Private Sub cmddis_Click()
frabill.Visible = False
cmdbill.Enabled = True
If txtno = "" Then
MsgBox "Please enter the snack number"
txtno.SetFocus
Exit Sub
End If

If txtno = 1 Then
lblsnack.Caption = "DRY FRUITS"
ElseIf txtno = 2 Then
```

```
lblsnack.Caption = "BURFI"

ElseIf txtno = 3 Then

    lblsnack.Caption = "OBATTU"

ElseIf txtno = 4 Then

    lblsnack.Caption = "RASGULLA"

Else

    MsgBox "Snack does not exist!"

    lblsnack.Caption = ""

    txtno = ""

    txtno.SetFocus

End If

End Sub
```

```
Private Sub cmdexit_Click()

End

End Sub
```

PROGRAM 9 : Student details

```
Private Sub Cmdcal_Click()

Dim a As Integer

If (Text1.Text = " " Or Text2.Text = " " Or Text3.Text = " " Or Text4.Text = " " Or Text5.Text = " ") Then

    MsgBox "Field should not be left blank"

    Exit Sub

End If

a = Val(Text3) + Val(Text4) + Val(Text5)

Label10.Caption = a

b = a / 3

Label11.Caption = b
```

```
If (b < 40) Then
```

```
    Label12.Caption = "FAIL"
```

```
Elseif (b < 45) Then
```

```
    Label12.Caption = "THIRD"
```

```
Elseif (b < 60) Then
```

```
    Label12.Caption = "SECOND"
```

```
Elseif (b < 75) Then
```

```
    Label12.Caption = "FIRST"
```

```
Else
```

```
    Label12.Caption = "DISTINCTION"
```

```
End If
```

```
End Sub
```

```
Private Sub Cmdclear_Click()
```

```
    Text1.Text = ""
```

```
    Text2.Text = ""
```

```
    Text3.Text = ""
```

```
    Text4.Text = ""
```

```
    Text5.Text = ""
```

```
    Label10.Caption = ""
```

```
    Label11.Caption = ""
```

```
    Label12.Caption = ""
```

```
    Text1.SetFocus
```

```
End Sub
```

```
Private Sub Cmdexit_Click()
```

```
    Unload Me
```

```
End Sub
```

```
Private Sub text1_keypress(KeyAscii As Integer)
```

```
    If KeyAscii = 13 And Text1.Text <> "" Then
```

```
        Text2.SetFocus
```

```
    ElseIf (KeyAscii < 65 And KeyAscii <> 8 And KeyAscii <> 32) Or (KeyAscii > 90 And KeyAscii < 97) Or (KeyAscii > 122) Then
```

```
        KeyAscii = 0
```

```
    MsgBox "Enter Letter Only"
```

```
    End If
```

```
End Sub
```

```
Private Sub text2_keypress(KeyAscii As Integer)
```

```
    If KeyAscii = 13 And Text2.Text <> "" Then
```

```
        Text3.SetFocus
```

```
    ElseIf (KeyAscii < 65 And KeyAscii <> 8 And KeyAscii <> 32) Or (KeyAscii > 90 And KeyAscii < 97) Or (KeyAscii > 122) Then
```

```
        KeyAscii = 0
```

```
    MsgBox "Enter Letter Only"
```

```
    End If
```

```
End Sub
```

```
Private Sub Text3_Change()
```

```
    If Val(Text3.Text) > 100 Then
```

```
        MsgBox "Marks Range From 0 to 100"
```

```
        Text3.Text = ""
```

```
    End If
```

```
End Sub
```

```
Private Sub text3_keypress(KeyAscii As Integer)
```

```
    If KeyAscii = 13 And Text3.Text <> "" Then
```

```
        Text4.SetFocus
```

```
    ElseIf (KeyAscii < 48 And KeyAscii <> 8) Or KeyAscii > 57 Then
```

```

KeyAscii = 0
MsgBox "Enter Digits Only"
End If
End Sub

Private Sub Text4_Change()
If Val(Text4.Text) > 100 Then
    MsgBox "Enter Digits Only"
End If
End Sub

Private Sub Text5_Change()
If Val(Text5.Text) > 100 Then
    MsgBox "Marks Range From 0 to 100"
    Text5.Text = ""
End If
End Sub

Private Sub Text5_keypress(KeyAscii As Integer)
If KeyAscii = 13 And Text5.Text <> "" Then
    Cmdcal.SetFocus
ElseIf (KeyAscii < 48 And KeyAscii <> 8) Or KeyAscii > 57 Then
    KeyAscii = 0
MsgBox "Enter Digits Only"
End If
End Sub

```

PROGRAM 10 : Factorial

```

Private Sub Command1_Click()

```

```
Dim num, i, fact As Integer
num = InputBox("enter a number")
fact = 1
For i = 1 To num
fact = fact * i
Next i
Print "the factorial of a given number is"; fact
End Sub
```

PROGRAM 11:Alarm clock

```
Private Sub cmdset_Click()
Label1.Caption = Text1.Text
End Sub
```

```
Private Sub cmdstart_Click()
Timer1.Enabled = False
End Sub
```

```
Private Sub Text1_GotFocus()
Text1.Text = "00:00:00"
End Sub
```

```
Private Sub Timer1_Timer()
If Format(Time, "hh:mm:ss") = Label2.Caption Then
'beep
MsgBox ("wake up")
End If
```

End Sub

Private Sub Timer2_Timer()

Label1.Caption = Format(Time, "hh:mm:ss")

End Sub

PROGRAM 12 : Employee details

Private Sub cmdClear_Click()

Text1.Text = " "

Text2.Text = " "

Text3.Text = " "

Text4.Text = " "

Text5.Text = " "

Text6.Text = " "

Text7.Text = " "

Text8.Text = " "

Text9.Text = " "

Text1.SetFocus

End Sub

Private Sub cmdExit_Click()

End

End Sub

Private Sub cmdResult_Click()

Dim bp, da, hra, ded, gp, np As Integer

If Text1.Text = " " Or Text2.Text = " " Or Text3.Text = " " Or Text4.Text = " " Then

 MsgBox "Fields cannot be left blank"

End If

bp = Val(Text4.Text)

Select Case bp

Case 0 To 2000

da = 2 / 100 * bp

hra = 3 / 100 * bp

ded = 50

Text5.Text = Val(da)

Text6.Text = Val(hra)

Text7.Text = Val(ded)

Case 2001 To 5000

da = 4 / 100 * bp

hra = 5 / 100 * bp

ded = 100

Text5.Text = Val(da)

Text6.Text = Val(hra)

Text7.Text = Val(ded)

Case 5001 To 10000

da = 6 / 100 * bp

hra = 7 / 100 * bp

ded = 1000

Text5.Text = Val(da)

Text6.Text = Val(hra)

Text7.Text = Val(ded)

Case Is > 10000

da = 8 / 100 * bp

hra = 9 / 100 * bp

ded = 1500

Text5.Text = Val(da)

```
Text6.Text = Val(hra)
```

```
Text7.Text = Val(ded)
```

```
Case Else
```

```
MsgBox "Enter basic pay"
```

```
End Select
```

```
gp = bp + da + hra
```

```
Text8.Text = Val(gp)
```

```
np = gp - ded
```

```
Text9.Text = Val(np)
```

```
End Sub
```

```
Private Sub Text4_KeyPress(KeyAscii As Integer)
```

```
If (KeyAscii < 48 And KeyAscii <> 46 And KeyAscii <> 8) Or (KeyAscii > 57) Then
```

```
KeyAscii = 0
```

```
MsgBox "Enter numeric value"
```

```
Text4.SetFocus
```

```
End If
```

```
End Sub
```