

Q1) a) Running time is the time at which the application is running in this time changing of properties is done by code , design time is the time at which the application is designed changing properties at this time could be done by using properties window.

b) 1) displaying result by writing debug.print followed by the name of variable or result one wants to display

2) a simple basic language to display simple result , the code must be written in one line , the sentence is separated by colon finally print the final value.

c) it is used to separate several executable sentence written in one line

d) by using option explicit which forced the programmer to declare the names of the variables and constants before use it.

e) so that to use the only sufficient size of memory to execute the program.

f) Const xd as integer =4

g) 5

h) if x=5 and y=6 then

b=1

else

b=3

end if

i) select case x

case 10 to 20

b=3

case else

b=4

end select

j) if x<10 then

b=3

else if x=10 then

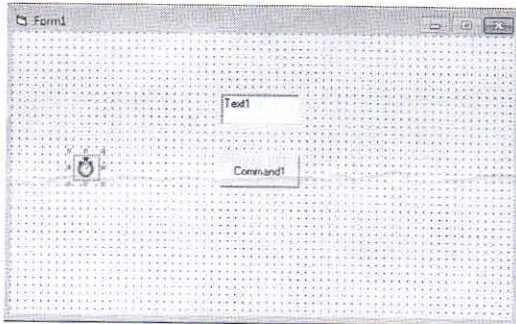
b=2

else

b=4

endif

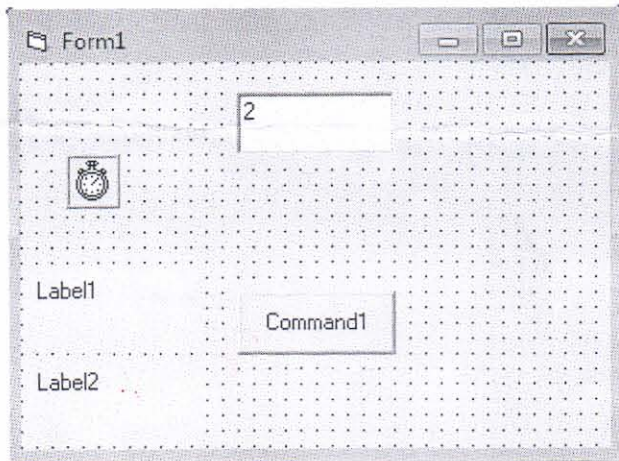
Q2) Change the location of text box from properties window to 200,200,900,450, set the time interval of timer1 to 1000ms



```
Private Sub Command1_Click()  
Text1.Text = "Example"  
Form1.Caption = "application"  
Text1.Move 200, 200, 900, 450  
Text1.FontBold = True  
Text1.FontSize = 16  
Text1.FontName = "Tahoma"  
Text1.BackColor = vbWhite  
Text1.ForeColor = vbBlack  
Command1.Caption = "press"  
End Sub
```

```
Private Sub Timer1_Timer()  
P=600  
S=timer  
Do while p+s> timer  
Do events  
End Sub
```

Q3) set the time interval of timer1 to 1000ms



Option Explicit

Dim z As Single, y As Single, x As Single, m As Single

Const gf As Single = 6.43

Private Sub Command1_Click()

z = CSng(Text1)

y = -15.7

x = CSng(InputBox(" ", " ", 4))

$m = (\text{Sqr}(x) + \text{Cos}(y) + \text{Exp}(-z) / \text{Atn}(x)) / ((\text{Abs}(y) + \text{gf}) / (z + y))$

MsgBox m

End Sub

Private Sub Timer1_Timer()

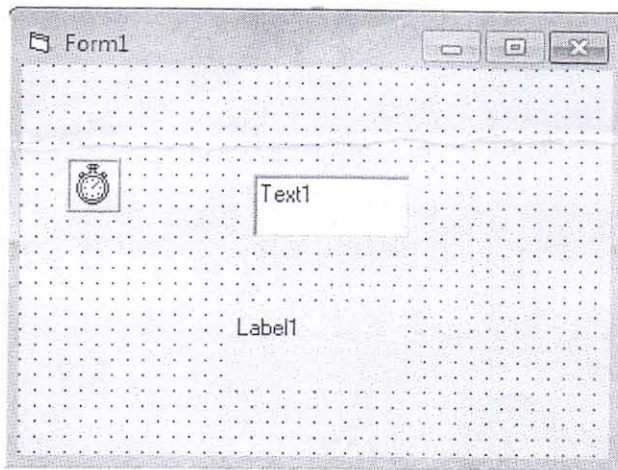
Label1 = Timer

Label2 = Time

End Sub

Q4) Set the time interval to 1000ms for timer1 tool in the properties window .

0.5 →



```
Private sub form_load
Text1.forecolor=vbbkack
Text1.backcolor=vbwhite
Text1.fontsize=14
Text1.fontname="times new roman"
Label1.forecolor=vbblack
Label1.backcolor=vbwhite
Label1.fontsize=14
Label1.fontname="times new roman"
End sub
```

```
Private Sub Text1_KeyDown(KeyCode As Integer, Shift As Integer)
If KeyCode = vbKeyR Then
Text1.Text = "R is down"
End If
End Sub
```

```
Private Sub Text1_KeyPress(KeyAscii As Integer)
If KeyAscii = 77 Then
Text1.Text = "M is pressed"
End If
```

```
End Sub
```

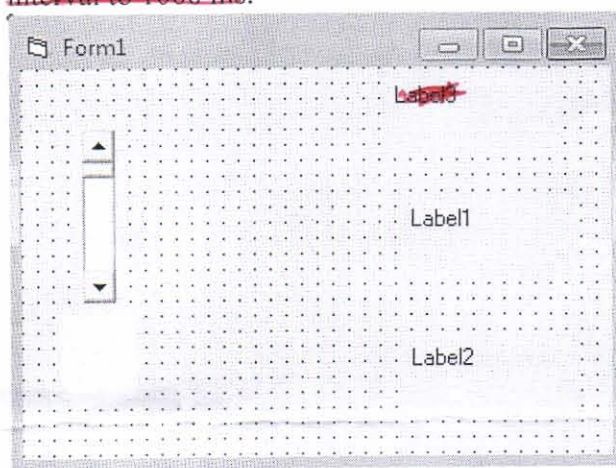
```
Private Sub Text1_KeyUp(KeyCode As Integer, Shift As Integer)
If KeyCode = vbKeyR Then
Text1.Text = "R is UP"
End If
End Sub
```

```
Private Sub Timer1_Timer()
Label1 = Timer
End Sub
```

0.5

Q5)

During design time For vscroll1 Chang max to 100 and min to 1 , ~~for timer1 change interval to 1000 ms.~~



Code:

Const PI = 3.14159

```
Private Sub vScroll1_Change()
```

```
Call heat
```

```
End Sub
```

```
Private Sub vScroll1_Scroll()
```

```
Call heat
```

```
End Sub
```

```
Sub heat()
```

```
p = VScroll1.Value
```

```
a = 0.00001
```

```
x = 0.000001
```

```
Io = p / (PI * a ^ 2)
```

```
mu = 5400
```

```
Q = Io * mu * Exp(-mu * x)
```

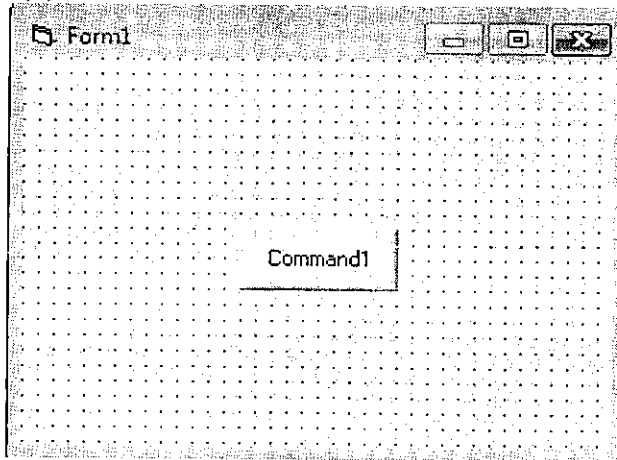
```
Label1 = "heat generation" & Q
```

```
Label2 = "power" & p
```

```
End Sub
```

6

Q6)



```
Option Base 1
Dim AC(30,20)
Private Sub Command1_Click()
For i = 1 To 30
For j = 1 To 20
AC(i, j) = f(i, j)
Next
Next
GoSub 25
Call wt(AC())
Exit Sub
25 sum=0
For i = 1 To 50
For j = 1 To 22
Sum=sum+AC(i, j)
Next
Next
Av=sum/600
Print sum,Av
Return
End Sub
```

```
Function f(i, j)
f = i * j
End Function
Sub wt(AC())
For i = 1 To 50
For j = 1 To 20
Debug.print i, j, AC(i, j)
Next
Next
End Sub
```