

Program 1 :-

Develop a project to get x's values and find their Arithmetic mean.

Show Mean and Total values :

Draw the Form :

Enter x

Grd value

Total value

Mean

test boxes

```
Dim X, am, n As integer  
Dim tx As integer
```

```
Private Sub cmdget_click ( )  
    X = val (Text1.Text)  
    If (Text1.Text = 0 And Text1.Text <> "")  
        MsgBox ("Please enter numeric value")  
        Text1.Text = ""  
        Text1.Set Focus  
    Else  
        tx = tx + X  
        n = n + 1  
        Text1.Text = ""  
        Text1.Set Focus  
    End If  
End Sub
```

```
Private Sub cmdshow_click ( )  
    am = tx/n  
    Text2.Text = n  
    Text3.Text = am  
End Sub
```

```
Private Sub cmdcls_click ( )  
    Text1.Text = ""  
    Text2.Text = ""  
    Text3.Text = ""  
End Sub
```

Private      sub      cmdExit - click ( )  
End  
End      sub

Private      sub      Form - Load ( )  
tx = 0  
n = 0  
End      sub

## Program 2 :-

Develop a project to get x's values then calculate their mean, variance & S.D then show them also draw form

Enter x <input type="text"/>	Get data <input type="text"/>	
Statistics		
Mean <input type="text"/>	Variance <input type="text"/>	S. Deviation <input type="text"/>
Total values		<input type="text"/>
Show sel <input type="text"/>	clear data <input type="text"/>	Exit <input type="text"/>

Dim n as integer

Dim x, var, Am, SD as integer.

Private sub cmdGet\_click ( )

    x = val (Text1.Text)

    If (x = 0 And Text1.Text < > "0") Then  
        msgbox ("Please enter Numeric value")

        Text1.Text = " "

        Text1.SetFocus  
    Else

        Tx = Tx + x

        Sx = Sx + x^2

        n = n + 1

        Text1.Text = " "

        Text1.SetFocus

End If

End sub



```
Private sub cmdshow_click ( )
```

$$Am = Tx/n$$

$$var = Sx/n - Am^2$$

$$SD = Sqr(var)$$

```
Text2.Text = Am
```

```
Text3.Text = var
```

```
Text4.Text = SD
```

```
Text5.Text = n
```

```
End sub
```

```
Private sub cmdcls_click ( )
```

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

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

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

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

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

```
End sub
```

```
Private sub cmdend_click ( )
```

```
End
```

```
End sub
```

```
Private sub Formload ( )
```

```
n = 0 : Tx = 0 : Sx = 0
```

```
End sub
```

Enter X

Get value

Harmonic mean

Geometric mean

Total values are

Show stat

Clear data

Exit

Dim n as integer

Dim x, H, G, TRX, TLX as integer

Private sub cmdG1\_click ( )  
x = val(Text1.Text)

TRX = TRX + 1/x

TLX = TLX + Log(x)

Text1.Text = " " : Text4.Text = 0  
n = n + 1

Text1.SetFocus

End sub

Private sub cmdshow\_click ( )

H = n/TRX

G = Exp(TLX/n)

Text2.Text = H

Text3.Text = G

Text4.Text = n

End sub



```
Private Sub cmdcls_click ( )
```

```
    Text1.Text = " "  
    Text2.Text = " "  
    Text3.Text = " "  
    Text4.Text = " "
```

```
    Text1.SetFocus  
End Sub
```

```
Private Sub cmdEnd_click ( )  
    End  
End Sub
```

```
Private Sub Form_load ( )  
    n = 0  
    TRX = 0  
    TLX = 0  
End Sub
```

2. Program 4 :-

Develop a project to get  
group data & calculate mean and variance  
Show them in text boxes, also draw  
From (grouped data)

X	Freq	Get value
<input type="text"/>	<input type="text"/>	
Mean	<input type="text"/>	
Variance	<input type="text"/>	
S.Deviation	<input type="text"/>	
<input type="button" value="Show result"/>	<input type="button" value="Clear data"/>	<input type="button" value="Exit"/>

Dim f, Tf as integer

Dim x, Tfx, Tfs, Am, Var, SD as single

Private sub cmdGol\_click ( )

x = val (Text1.Text)

f = val (Text2.Text)

Tf = Tf + f

Tfx = Tfx + f \* x

Tfs = Tfs + f \* x^2

Text1.Text = " "

Text2.Text = " "

Text1.SetFocus

End sub

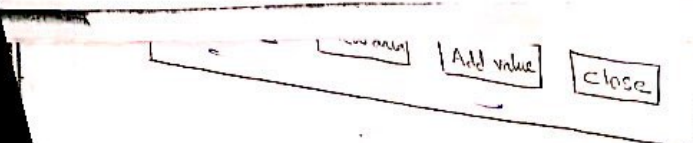
Private sub cmdshow\_click ( )

Am = Tfx / Tf

Var = Tfs / Tf - Am^2

SD = Sqr(Var)

Text3.Text = Am



Text4.Text = Var  
Text5.Text = S.D

Private sub cmdcls\_click ( )

Text1.Text = ""  
Text2.Text = ""  
Text3.Text = ""  
Text4.Text = ""  
Text5.Text = ""  
End sub

Private sub cmdEnd\_click ( )  
End  
End sub

Private sub Formload ( )

Tf = 0 : TfX = 0 : TfS = 0  
End sub

Program 5 :-

Design an appropriate screen to get the value of  $x$  variable with 'n' value and display Arithmetic mean, Standard deviation, Standard Error of mean, Coefficient of variable. Show that necessary changes in the properties object placed on Form. Write the all procedure necessary to find the above statistics

X <input type="text"/>	N <input type="text"/>		
Statistics			
A.m <input type="text"/>	S.E (mean) <input type="text"/>		
S.D <input type="text"/>	C.V <input type="text"/>		
<input type="button" value="Statistics"/>	<input type="button" value="New data"/>	<input type="button" value="Add value"/>	<input type="button" value="Close"/>



Dim x, Tx, SS, Am as Double.

Dim N as integer

Private Sub cmdAddvalue\_click ( )

x = Val ( Text1.Text )

Tx = Tx + x

SS = SS + x^2

N = N + 1

Text2.Text = N

Text1.Text = " "

Text1.SetFocus

End Sub

Private Sub cmdstat\_click ( )

Am = Tx/N

S.D = Sqr ( SS/N - Am^2 )

C.V = SD/Am \* 100

S.E = SD / Sqr ( N )

Text3.Text = Am

Text4.Text = S.D

:

```
Text5.Text = S.E  
Text6.Text = C.V  
End Sub
```

```
Private Sub cmdNewData_Click ( )
```

```
Text1.Text = " "  
Text2.Text = " "
```

```
Tx = 0 : IN = 0 : SD = 0  
S.E = 0 : C.V = 0  
Text1.Text = selfFocus  
End Sub
```

```
Private Sub cmdClose_Click ( )  
End  
End Sub
```

```
Private Sub Form_Load ( )
```

```
Tx = 0  
SS = 0  
IN = 0  
End Sub
```

Good!

Program 6 :-

Develop a program, input the value of  $x$  &  $y$  then find intercept, slope and correlation b/w two variable.

X	Y	Get value
<input type="text"/>	<input type="text"/>	<input type="text"/>
		n
		<input type="text"/>
intercept	<input type="text"/>	
Slope	<input type="text"/>	
correlation	<input type="text"/>	
Statistics	clear	Exit

input  
intercept  
ables

Dim n as integer

Dim X, Y, Tx, Ty, Txy, Sx, Sy, a, b, r  
as single

Private sub cmdGraf\_click ( )

X = val (Text1.Text)

Y = val (Text2.Text)

Tx = Tx + X

Ty = Ty + Y

Txy = Txy + X \* Y

Sy = Sy + Y^2

Sx = Sx + X^2

n = n + 1

Text1.Text = " "

Text2.Text = " " : Text3.Text = n

Text1.~~Text~~ setFocus

End Sub

Private sub cmdstat\_click ( )

$$b = (n * Txy - Tx * Ty) / (n * Sx - Tx^2)$$

$$a = Ty/n - b * Tx/n$$

$$r = \frac{(n * Txy - Tx * Ty)}{\sqrt{(n * Sx - Tx^2) * (n * Sy - Ty^2)}}$$

$\frac{a/\sqrt{Sx}}{a/\sqrt{Sy}}$



```

Text4.Text = a
Text5.Text = b
Text6.Text = c
End Sub

```

```

Private Sub cmdClear_Click ( )

```

```

    Text1.Text = ""
    Text2.Text = ""
    Text3.Text = ""
    Text4.Text = ""
    Text5.Text = ""
    Text6.Text = ""
End Sub

```

```

Private Sub cmdExit_Click ( )
End
End Sub

```

```

Private Sub Form_Load ( )

```

```

    n = 0 : Tx = 0 : Ty = 0
    Sy = 0 : Sx = 0 : Sxy = 0

End Sub

```



Gravel

Program 7 :-

Develop the Program  
Input the value of X & Y then  
Final result the Regression b/w two  
Variables.

Form :-

X	Y	
<input type="text"/>	<input type="text"/>	
n	m	Get value
<input type="text"/>	<input type="text"/>	
b <sub>yx</sub>	<input type="text"/>	b <sub>xy</sub> <input type="text"/>
Show	clear	Exit

Dim n as integer  
 Dim X, Y, Tx, Ty, Sx, Sy, Sxy, bxx, byy  
 as ~~integer~~ double

Private Sub cmdGet\_Click()

X = Val(Text1.Text)  
 Y = Val(Text2.Text)

Tx = Tx + X

Ty = Ty + Y

Sx = Sx + X<sup>2</sup>

Sy = Sy + Y<sup>2</sup>

Sxy = Sxy + (X \* Y)

n = n + 1

m = m + 1

Text1.Text = " "

Text2.Text = " "

End Sub

Private Sub cmdshow\_Click()

Var(x) = Sx/n - [Tx/n]<sup>2</sup>

Var(y) = Sy/m - [Ty/m]<sup>2</sup>

Cov(X, Y) = Sxy/n - [(Tx/n) \* (Ty/m)]

$$b_{yx} = \frac{\text{Cov}(x, y)}{\text{Var}(x)}$$

$$b_{xy} = \frac{\text{Cov}(x, y)}{\text{Var}(y)}$$

```
Text 3. Text = ""
Text 4. Text = ""
Text 5. Text = byx
Text 6. Text = bxy
End Sub
```

```
Private Sub cmdcls_Click()
```

```
Text 1. Text = ""
Text 2. Text = ""
Text 3. Text = ""
Text 4. Text = ""
Text 5. Text = ""
Text 6. Text = ""
End Sub
```

```
Private Sub cmdExit_Click()
```

```
End Sub
```

```
Private Sub Form_Load()
```

```
    Sy = 0 : Tx = 0 : Ty = 0 : Sx = 0
    Sy = 0 : Sxy = 0 : bxy = 0 : byx = 0
End Sub
```

x

y

n

m

Chi Square



Dim  $\lambda$ ,  $n$ ,  $m$ ,  $T_x$ ,  $T_y$  As integer

Private sub cmdGot - click ( )

$\lambda = \text{val}(\text{Text1.Text})$

If (Text1.Text = 0 AND Text1.Text < > 0) then  
Msgbox ("Please enter  $\lambda$  value")  
Text1.Text = " "

Else

$T_x = T_x + \lambda$

$n = n + 1$

Text1.Text = " "

End If

$\gamma = \text{value}(\text{Text2.Text})$

If (Text2.Text = 0 AND Text2.Text < > 0) then  
Msgbox ("Please enter  $\gamma$  value")  
Text2.Text = " "

Else

$T_y = T_y + \gamma$

$m = m + 1$

Text2.Text = " "

End If

End Sub

Private sub cmdshow - click ( )

$$\chi^2_{sq} = [T_x - T_y]^2 / T_y$$



```

Text 3. Tead = n
Text 4. Text = m
Text 5. Tead = chi Sv
End sub

```

```

Private sub cmdExitcls - click ( )

```

```

Text 1. Tead = " "
Text 2. Tead = " "
Text 3. Tead = " "
Text 4. Tead = " "
Text 5. Tead = " "
End sub

```

```

Private sub cmdExit - click ( )
End
End sub

```

```

Private sub Form-load ( )

```

```

n = 0 : m = 0 : Tx = 0

```

```

Ty = 0

```

```

End sub

```