

## **Environment – Microsoft Windows**

**Objective –** Write a program that will calculate the factorial of the given number by using function (i.e. call by Value). The number is entered in first textbox and result of factorial will be shown in second textbox when user clicks on “Calculate” button.

## **Procedure –**

### **Code-**

```
Dim num, i, fact As Integer
```

```
Dim inum As Integer
```

```
Dim ifact As Long
```

```
'Dim fact As Double
```

```
'Dim i As Double
```

```
'Dim n As Double
```

```
Private Function factorial(ByVal inum As Integer) As Long
```

```
Dim f As Integer
```

```
f = 1
```

```
inum = Val(Text1.Text)
```

```
For i = 1 To inum
```

```
f = f * i
```

```
Next
```

```
factorial = f
```

```
End Function
```

```
Private Sub Command1_Click()
```

```
'n = Val(Text1.Text)
```

```
'fact = 1
```

```
'For i = 1 To n
```

```
'fact = fact * i
```

```
'Next
```

```
'Text2.Text = fact
```

```
inum = Val(Text1.Text)
```

```
ifact = factorial(inum)
```

```
Text2.Text = ifact
```

```
End Sub
```

```
Private Sub Command2_Click()
```

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

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

```
End Sub
```

**Output:**

Form23

Factorial

Enter the number

5

Factorial

120

Calculate

Reset