

# Function Procedure in VB.NET

A Function procedure is a group of logically related statements that is used to perform a specific task.

You can pass arguments to the Function procedure while calling it.

It can also return a single value to the point from which it is called. Thus the only difference between Sub procedure and Function Procedure is that sub procedure does not return any value while function procedure returns a single value.

Function procedure can be defined using Function and End Function keywords.

The general syntax for defining a Function procedure is given below:

**[Scope] Function ProcedureName ([Argument List]) [As Return Type]**

Group of Related statements

[Return Statement]

**End Function**

**Here,**

**(1) Scope:** It is optional. It defines scope of the procedure. It can have either Public, Private or Protected scope. If don't specify then by default it is Public.

**(2) Procedure Name** is the name of function procedure that you want to define.

**(3) Argument List** is optional. Some Procedure accepts argument while some does not accept arguments.

**(4) Return Type** is also optional. If function procedure returns any value then you has to specify return type otherwise there is no need to specify return type.

Return statement is used inside Function Procedure to return value to the point from where it is called.

Function Procedure can be called using two different methods as shown below:

Call FunctionName ([Argument List])

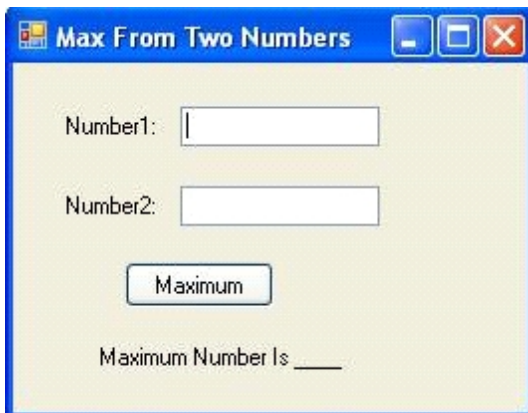
**OR**

FunctionName [Argument List]

## Example of Function Procedure

Design an application using Function Procedure to find maximum from two numbers.

**Step 1:** Design a form as shown below:



**Step 2:** Now set properties of various controls as given below:

Control Name	Property Name	Value
Form1	Text	Max From Two Numbers
Label1	Text	Number1:
Label2	Text	Number2:
TextBox1	Name	txtNumber1
TextBox2	Name	txtNumber2
Button1	Name	cmdMax
	Text	Maximum
Label3	Name	lblMax
	Text	Maximum Number Is ____

**Step 3:** Now define a Function procedure named Maximum as given below:

**Function Maximum(ByVal a As Integer, ByVal b As Integer) As Integer**

If a > b Then

Return a

Else

Return b

End If

**End Function**

**Step 4:** Now double click on Maximum Button and write following code to call Function Procedure.

```
Dim c As Integer
```

```
c = Maximum(txtNumber1.Text, txtNumber2.Text)
```

```
lblMax.Text = "Maximum Number is " & c
```