



6.3

Function Procedures

A Function Procedure Returns a Value to the Part of the Program That Called the Function Procedure



Declaring a Function Procedure

```
[AccessSpecifier] Function FunctionName ([ParameterList]) _  
    As Data Type  
    [Statements]  
End Function
```



- New keyword *Function*
- Also new is *As Data Type* which states the data type of the value to be returned
- Return value is specified in a *Return* expression



Function Call Example

```
total = Sum(value1, value2)
```

```
Function Sum(ByVal num1 As Single, ByVal num2 As Single) _  
            As Single
```

```
    Dim result As Single
```

```
    result = num1 + num2
```

```
    Return result
```

```
End Function
```

- value1 and value2 must be data type Single
- Total must be declared as data type Single
- Tutorial 6-5 demonstrates function use



Returning Nonnumeric Values

```
Function FullName(ByVal first As String, ByVal last As String) _  
                As String  
    Dim name As String  
    name = last & ", " & first  
    Return name  
End Function
```

```
Function IsValid(num As Integer) As Boolean  
    Dim status As Boolean  
    If num >= 0 And num <= 100 Then  
        status = True  
    Else  
        status = False  
    End If  
    Return status  
End Function
```