

## Practical No 19

### VIII. Resources required (Additional)

→ If any web resources required.

### X. Resources used (Additional)

<https://www.tutorialspoint.com/vb.net/vb.net>

### XI. Program Code

#### 1. Write a program using concept of Inheritance.

➤ `Module Module1`

```
Sub Main()  
    Dim obj As New details  
    obj.show()  
    Console.ReadLine()  
End Sub  
  
End Module  
  
Public Class student                                'Base Class  
    Public branch As String = "Computer"  
End Class  
  
Public Class details                                'Derived Class  
    Inherits student  
    Public Function show()  
        Console.WriteLine("Branch = " & branch)  
        Return 0  
    End Function  
End Class
```

### XII. Results (output of the program)

Branch = Computer

### XIII. Practical related Questions

1. Find output in following class.

- My Base Class
- My Child Class

2. Find Error in following code.

```
Public Class Person
    Public FirstName As String
    Public LastName As String
    Public DateOfBirth As Date
    Public Gender As String
    Public ReadOnly Property FullName() As String
        Get
            Return FirstName & " " & LastName
        End Get
    End Property
End Class
Public Class Customer=>Inherits Person
    Public CustomerID As String
    Public CustomerType As String
End Class
```

- **Error 1** 'Sub Main' was not found in 'ConsoleApplication1.Module1'.

**Warning2** Property 'FullName' doesn't return a value on all code paths. A null reference exception could occur at run time when the result is used.

**Error 3** Statement cannot appear within a method body. End of method assumed.

**Error 4** End of statement expected.

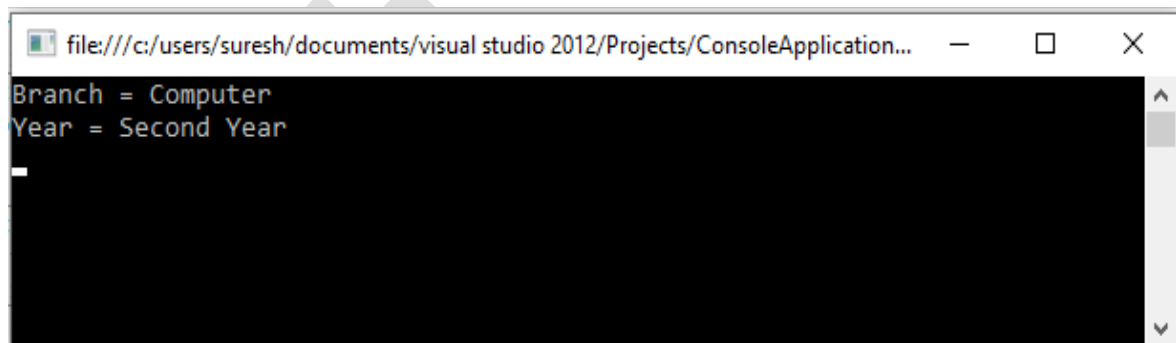
#### XIV. Exercise

1. Implement a program for inheritance where Student is Child Class and faculty is Base class.(Take Appropriate variable in Base and Child class)

➤ Module Module1

```
Sub Main()  
    Dim s As New student  
    s.branch()  
    s.year()  
    Console.ReadLine()  
End Sub  
  
Class faculty  
    Dim b As String = "Computer"  
    Sub branch()  
        Console.WriteLine("Branch = " & b)  
    End Sub  
End Class  
Class student  
    Inherits faculty  
    Dim y As String = "Second Year"  
    Sub year()  
        Console.WriteLine("Year = " & y)  
    End Sub  
End Class  
End Module
```

**Output:**



The screenshot shows a console application window titled "file:///c:/users/suresh/documents/visual studio 2012/Projects/ConsoleApplication...". The window has a black background with white text. The output displayed is:

```
Branch = Computer  
Year = Second Year
```