

Practical No 18

VIII. Resources required (Additional)

→ If any web resources required.

X. Resources used (Additional)

- <https://docs.microsoft.com/en-us/dotnet/visual-basic/language-reference/statements/function-statement>
- https://www.tutorialspoint.com/vb.net/vb.net_functions.htm

XI. Program Code

1. Write a program to demonstrate the use of constructor & destructor.

➤ A) Constructor-

```
Module Module1
    Sub Main()
        Dim obj As New syco
        obj.show()
        Console.ReadLine()
    End Sub
    Public Class syco
        Public Function show()
            Console.WriteLine("This is base class")
        End Function
        Sub New()
            Console.WriteLine("Constructor Executed")
        End Sub
    End Class
End Module
```

OUTPUT:

Constructor Executed
This is base class

```
Module Module1
    Sub Main()
        Dim obj As New syco
        obj.show()
    End Sub
End Module
Public Class syco
    Public Function show()
        Console.WriteLine("This is base Class")
    End Function
    Protected Overrides Sub Finalize()
        Console.WriteLine("Destructor executing here")
        Console.ReadLine()
    End Sub
End Class
```

OUTPUT:

This is base class
Destructor executing here

XII. Results (output of the program)

- a. Constructor Executed
This is base class
- b. This is base class
Destructor executing here

XIII. Practical related Questions

1. Find output in following code.

➤ 40

2. Find Error in following code.

```
Imports System.Console
Module Module1
    Sub Main()
        Dim obj As New Destroy()
    End Sub
End Module
Public Class Destroy
    Protected Overrides Finalize()
        Write("VB.NET")
        Read()
    End Sub
End Class
```

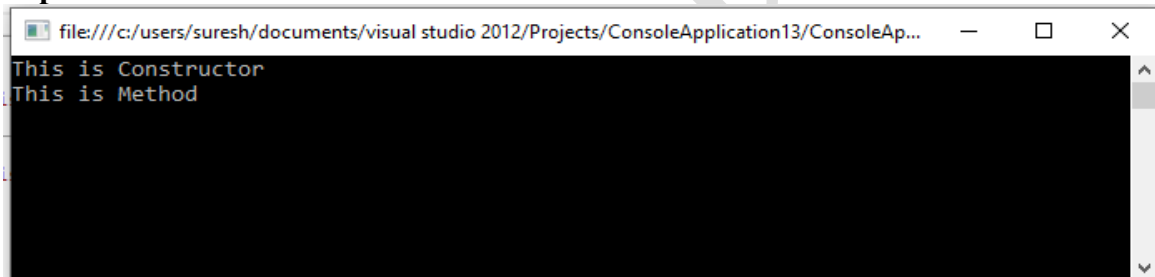
- Error 1 'Overrides' is not valid on a member variable declaration.
Warning 2 variable 'Finalize' conflicts with sub 'Finalize' in the base class 'Object' and should be declared 'Shadows'.
Error 3 Declaration expected.
Error 4 Declaration expected.
Error 5 'End Sub' must be preceded by a matching 'Sub'.

XIV. Exercise

- 1. Implement a program to display any message at run time.(Using Constructor).**

```
> Module Module1
    Sub Main()
        Dim obj As New sample
        obj.display()
        Console.ReadLine()
    End Sub
    Class sample
        Public Sub New()
            Console.WriteLine("This is Constructor")
        End Sub
        Sub display()
            Console.WriteLine("This is Method")
        End Sub
    End Class
End Module
```

Output:



- 2. Implement a program to calculate area of circle using parameterized constructor.**

```
> Module Module1
    Sub Main()
        Dim obj As New circle(2)
        obj.area()
        Console.ReadLine()
    End Sub
    Class circle
        Dim p As Double = 3.14
        Dim r, a As Double
        Public Sub New(ByVal i As Integer)
            r = i
        End Sub
        Sub area()
            a = p * r * r
            Console.WriteLine("Area of Circle = " & a)
        End Sub
    End Class
End Module
```

OUTPUT:

Area of Circle = 12.56