

# Decimal Data Type

## 1.Convert String to Decimal

**Imports** System

**Public Class** MainClass

**Shared Sub** Main()

**Dim** cdeg **As** Decimal

Console.WriteLine("Enter the degrees in centigrade...")

cdeg = CDec(Console.ReadLine())

**Dim** fdeg **As** Decimal

fdeg = (((9@ / 5) \* cdeg) + 32)

Console.WriteLine(cdeg & " is " & fdeg & " degrees Fahrenheit.")

**End Sub**

**End Class**

```
Enter the degrees in centigrade...1
1 is 33.8 degrees Fahrenheit.
```

## 2.Append decimal data type values to a StringBuilder object.

**Imports** System.Text

**Class** Sample

**Public Shared Sub** Main()

**Dim** sb **As** New StringBuilder()

**Dim** xDecimal **As** [Decimal] = 5

sb = sb.Append(xDecimal)

**Dim** str **As** [String] = sb.ToString()

Console.WriteLine("The appended string is:")

Console.WriteLine(str)

**End Sub**

**End Class**

## 3.Generic and nongeneric versions of the CompareTo method for Decimal value

**Imports** System

**Class** Sample

**Public Shared Sub** Main()

**Try**

**Dim** a1 **As** [Decimal] = -5.5D, a2 **As** [Decimal] = 5.5D

Show(a1, a2, a1.CompareTo(a2), a1.CompareTo(CObj(a2)))

```
Catch e As Exception
    Console.WriteLine(e)
End Try
End Sub
```

```
Public Shared Sub Show(var1 As [Object], var2 As [Object], resultGeneric As Integer, resultNonGeneric As Integer)
    Console.WriteLine(var1)
    Console.WriteLine(var2)
If resultGeneric = resultNonGeneric Then
    If resultGeneric < 0 Then
        Console.WriteLine("less than")
    ElseIf resultGeneric > 0 Then
        Console.WriteLine("greater than")
    Else
        Console.WriteLine("equal to")
    End If
End If
End Sub
End Class
```

4. Use the `Sign(Decimal)` method to determine the sign of a Decimal value and display it to the console.

```
Class Sample
Public Shared Sub Main()
    Dim xDecimal1 As [Decimal] = -7D

    Console.WriteLine(xDecimal1)
    Console.WriteLine(Test(Math.Sign(xDecimal1)))

End Sub

Public Shared Function Test([compare] As Integer) As [String]
    If [compare] = 0 Then
        Return "equal to"
    ElseIf [compare] < 0 Then
        Return "less than"
    Else
        Return "greater than"
    End If
End Function
End Class
```