

INTEGER DATA TYPE

1. Compare Integer value and output their relation

Imports System

public class MainClass

Shared Sub Main()

```
Dim valueOne As Integer = 10
Dim valueTwo As Integer = 20
Dim valueThree As Integer = 30
```

```
Console.WriteLine("Testing valueOne against valueTwo...")
```

```
If valueOne > valueTwo Then
```

```
    Console.WriteLine( _
        "ValueOne: {0} larger than ValueTwo: {1}", _
        valueOne, valueTwo)
```

```
End If
```

```
Console.WriteLine("Testing valueThree against valueTwo...")
```

```
If valueThree > valueTwo Then
```

```
    Console.WriteLine( _
        "ValueThree: {0} larger than ValueTwo: {1}", _
        valueThree, valueTwo)
```

```
End If
```

```
Console.WriteLine("Testing is valueTwo > 15 (one line)...")
```

```
If valueTwo > 15 Then Console.WriteLine("Yes it is")
```

```
End Sub
```

```
End Class
```

2. Integer Initialize and assignment

Imports System

public class MainClass

```
Shared Public Sub Main(ByVal CmdArgs() As String)
```

```
    Dim myInteger As Integer = 7
```

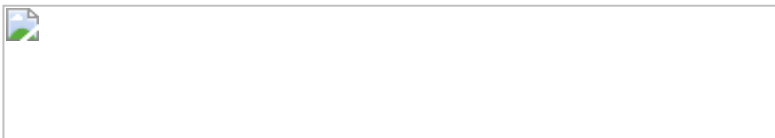
```
    Console.WriteLine("Initialized, myInteger: {0}", myInteger)
```

```
    myInteger = 5
```

```
    Console.WriteLine("After assignment, myInteger: {0}", myInteger)
```

```
End Sub
```

```
End Class
```



3.Integer calculation

Imports System

public class MainClass

Shared Sub Main()

Dim i1 **As** Integer = 5

Dim i2 **As** Integer = 10

Dim i3 **As** Integer = 15

Dim i4 **As** Integer = 20

Console.WriteLine(i1 + i2)

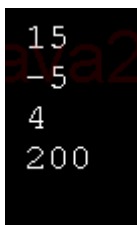
Console.WriteLine(i2 - i3)

Console.WriteLine(i4/ i1)

Console.WriteLine(i4 * i2)

End Sub

End Class



```
15
-5
4
200
```

4.Define and use Array Integer

Imports System

Public Class MainClass

Shared Sub Main(ByVal args **As** String())

Dim squares(10) **As** Integer

For i **As** Integer = 0 To 10

squares(i) = i * i

Next i

Dim txt **As** String = ""

For i **As** Integer = 0 To 10

Console.WriteLine (squares(i).ToString)

Next i

End Sub

End Class

```
0
1
4
9
16
25
36
49
64
81
100
```

5.And, Or, Xor and Not on Integer

```
Imports System
```

```
Public Class MainClass
```

```
Shared Sub Main(ByVal args As String())
```

```
Dim x As Integer = 5
```

```
Dim y As Integer = 7
```

```
Dim andValue As Boolean
```

```
Dim orValue As Boolean
```

```
Dim xorValue As Boolean
```

```
Dim notValue As Boolean
```

```
andValue = x = 3 And y = 7
```

```
orValue = x = 3 Or y = 7
```

```
xorValue = x = 3 Xor y = 7
```

```
notValue = Not x = 3
```

```
Console.WriteLine("x = 3 And y = 7. {0}", andValue)
```

```
Console.WriteLine("x = 3 Or y = 7. {0}", orValue)
```

```
Console.WriteLine("x = 3 Xor y = 7. {0}", xorValue)
```

```
Console.WriteLine("Not x = 3. {0}", notValue)
```

```
End Sub
```

```
End Class
```

```
End Class
```



6.Integer Value Demo

```
Imports System
```

Public Class MainClass

Shared Sub Main(ByVal args **As** String())

Dim n **As** Integer

n = 16

n += 10.23

Console.WriteLine("Addition test..." & n, "Integer Math")

n = 24

n -= 2

Console.WriteLine("Subtraction test..." & n, "Integer Math")

n = 6

n *= 10

Console.WriteLine("Multiplication test..." & n, "Integer Math")

n = 12

n /= 6

Console.WriteLine("Division test..." & n, "Integer Math")

End Sub

End Class



7.Integer: add, subtract, multiply and divide

Imports System

Public Class MainClass

Shared Sub Main()

'Declare variable

Dim intNumber **As** Integer

'Set number, add numbers, and display results

intNumber = 16

'intNumber = intNumber + 8

intNumber += 8

System.Console.WriteLine("Addition test... " & intNumber)

'Set number, subtract numbers, and display results

intNumber = 24

'intNumber = intNumber - 2

intNumber -= 2

System.Console.WriteLine("Subtraction test... " & intNumber)

```
'Set number, multiply numbers, and display results
intNumber = 6
'intNumber = intNumber * 10
intNumber *= 10
System.Console.WriteLine("Multiplication test... " & intNumber)
```

```
'Set number, divide numbers, and display results
intNumber = 12
'intNumber = intNumber / 6
intNumber /= 6
System.Console.WriteLine("Division test... " & intNumber)
```

End Sub

End Class

```
Addition test... 24
Subtraction test... 22
Multiplication test... 60
Division test... 2
```

8.Integer Value Demo

Imports System

Public Class MainClass

Shared Sub Main(ByVal args **As** String())

Dim n **As** Integer

n = 16

n += 10.23

Console.WriteLine("Addition test..." & n, "Integer Math")

n = 24

n -= 2

Console.WriteLine("Subtraction test..." & n, "Integer Math")

n = 6

n *= 10

Console.WriteLine("Multiplication test..." & n, "Integer Math")

n = 12

n /= 6

Console.WriteLine("Division test..." & n, "Integer Math")

End Sub

End Class



9. Append Integer data type values to a StringBuilder object.

Imports System.Text

Class Sample

Public Shared Sub Main()

Dim sb **As** New StringBuilder()

Dim xInt32 **As** Integer = 3

sb = sb.Append(xInt32)

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

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

Console.WriteLine(str)

End Sub

End Class