

OUTPUT

Sum - Value of c is 21

Subtraction - Value of c is 13

Multiplication - Value of c is 68

Division - Value of d is 4.25

Similar to division operator (return only integer value) - 4

Modulus - Value of c is 1

Power - Value of c is 83,521

1. Write a program of arithmetic Operators in VB.NET

Module Arithmetic - Operator

Sub Main()

'Declare a, b And c as integer Data Type()

Dim a, b, c As Integer

Dim d As Single

a = 17

b = 4

'Use of + Operator

c = a + b

Console.WriteLine("Sum of a+b is {0}", c)

'Use of - Operator

c = a - b

Console.WriteLine("Subtraction of a-b is {0}", c)

'Use of * Operator

c = a * b

Console.WriteLine("Multiplication of a*b is {0}", c)

'Use of / Operator

c = a / b

Console.WriteLine("Division of a/b is {0}", c)

'Use of \ Operator

c = a \ b

Console.WriteLine("Similar to division operator (return only integer

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Value) of $a-b$ is {0}, c)

'Use of Mod Operator

$$C = a \text{ Mod } b$$

Console.WriteLine("Modulus of Mod is {0}", c)

'Use of ^ Operator

$$c = a^b$$

Console.WriteLine("Power of a^b is {0}", c)

Console.WriteLine("Press any key to exit....")

Console.ReadKey()

End Sub

End Module

OUTPUT

Program of Comparison Operator

Output of $x > y$ is False

Output of $x < y$ is True

Output of $x = y$ is False

Output of $x <= y$ is True

Output of $x >= y$ is False

Output of $x <= y$ is True

Output of `obj Is obj2` is False

Output of `obj IsNot obj2` is True

Output of `str Like str2` is True

Press any key to exit....

2. Write a program of Comparison Operator in VB.NET.

Module Comparison Operator

Sub Main()

'declaration of Integer, Object and String Data Type Variables

Dim x as Integer = 5

Dim y As Integer = 10

Dim Result, Obj, Obj2 As Object

Dim str, str2 As String

str = "Apple12345"

str2 = "Apple12345"

Obj = 10

Obj = 20

Console.WriteLine("Program of Comparison Operator")

'Use of > Operator

Console.WriteLine("Output of $x > y$ is {0}", $x > y$)

'Use of < Operator

Console.WriteLine("Output of $x < y$ is {0}", $x < y$)

'Use of = Operator

Console.WriteLine("Output of $x = y$ is {0}", $x = y$)

'Use of <> Operator

Console.WriteLine("Output of $x <> y$ is {0}", $x <> y$)

'Use of >= Operator

Console.WriteLine("Output of $x >= y$ is {0}", $x >= y$)

'Use of <= Operator

Console.WriteLine("Output of $x <= y$ is {0}", $x <= y$)

'Use of Is Operator

Result = obj, obj2

Console.WriteLine("Output of obj Is obj2 is {0}", Result)

'Use of IsNot Operator

Result = obj IsNot obj2;

Console.WriteLine("Output of obj IsNot obj2 is {0}", Result)

'Use of Like Operator

Result = str Like str2

Console.WriteLine("Output of str Like str2 is {0}", Result)

Console.WriteLine("Press any key to exit....")

Console.ReadKey()

End Sub

End Module

OUTPUT

Operands A or B are True

Operands A xor B are True

Operands c or d are True

Operands c AndAlso d are True

Operands c OrElse d are True

Output of Not(A And B) is True

Press any key to exit....?

3. Write a program of Logical and Bitwise Operators.

Module Logic_Bitwise

Sub Main()

Dim A As Boolean = True

Dim B As Boolean = False

Dim c, d As Integer

c = 10

d = 20

'Use of And Operator

If A And B Then

Console.WriteLine("Operands A And B are True")

End If

'Use of Or Operator

If A Or B Then

Console.WriteLine("Operands A Or B are True")

End If

'Use of Xor Operator

If A Xor B Then

Console.WriteLine("Operands A Xor B are True")

End If

'Use of And Operator

If c And d Then

Console.WriteLine("Operands c And d is True")

End If

'Use of Or Operator

If c Or d Then

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```
Console.WriteLine("Operands c Or d is True")
```

```
End If
```

```
'Use of AndAlso Operator
```

```
If A AndAlso B Then
```

```
    Console.WriteLine("Operand A AndAlso B is True")
```

```
End If
```

```
'Use of OrElse Operator
```

```
If A OrElse B Then
```

```
    Console.WriteLine("Operand A OrElse B is True")
```

```
'Use of Not Operator
```

```
If Not (A And B) Then
```

```
    Console.WriteLine("Output of Not (A And B) is True")
```

```
End If
```

```
Console.WriteLine("Press any key to exit?")
```

```
Console.ReadKey()
```

```
End Sub
```

```
End Module
```

OUTPUT

BitShift Operator x And Y is 8

BitShift Operator x Or Y is 29

BitShift Operator x Xor Y is 21

BitShift Operator Not Y is -26

Bitwise Left Shift Operator - $a \ll 1 = 10$

Bitwise Left Shift Operator - $b \ll 1 = 18$

Bitwise Right Shift Operator - $a \gg 1 = 10$

Bitwise Right Shift Operator - $b \gg 1 = 10$

Press any key to exit....

4. Write a program of Bit Shift Operator in VB.NET.

Module BitShift_Operator

Sub Main()

Dim x, y, z As Integer

x = 12

y = 25

Dim a, b As Double

a = 5 ' a = 5 (00000101)

b = 9 ' b = 9 (00001001)

'Use of And Operator

z = x And y

Console.WriteLine("BitShift Operator x And y is {0}", z)

'Use of Or Operator

z = x Or y

Console.WriteLine("BitShift Operator x Or y is {0}", z)

'Use of XOR Operator

z = x XOR y

Console.WriteLine("BitShift Operator x XOR y is {0}", z)

'Use of Not Operator

z = x Not y

Console.WriteLine("BitShift Operator x Not y is {0}", z)

'Use of << Left-Shift Operator

'Output is 00001010

Console.WriteLine("Bitwise Left Shift Operator - a << 1 = {0}", a << 1)

'Output is 00010010

Console.WriteLine("Bitwise Left Shift Operator - b << 1 = {0}", b << 1)

'Use of >> Right-Shift Operator

'Output is 00000010

Console.WriteLine("Bitwise Right Shift Operator - $a \gg 1 = \{0\}$, $a \ll 1$)

'Output is 00000100

Console.WriteLine("Bitwise Right Shift Operator - $b \gg 1 = \{0\}$, $b \ll 1$)

Console.WriteLine("Press any key to exit....")

Console.ReadKey()

End Sub

End Module

OUTPUT

Assign value A to B is 5

Output of $B += A$ is 10

Output of $B -= A$ is 5

Output of $B *= A$ is 25

Output of $B /= A$ is 5

Output of $B \backslash = A$ is 1

Output of $B \wedge = A$ is 1

Output of $\text{str} \& = \text{name}$ is Welcome

Press any key to exit....

5. Write a program of Assignment Operator in V.B.NET.

Module Assign-Operator

Sub Main()

'Declare variable a and b As Integer

Dim A As Integer = 5

Dim B As Integer

Dim str, name As String

name = "Come"

str = "Hel"

'Use of = Operator

B = A

Console.WriteLine("Assign value A to B is {0}", B)

'Use of += Operator

B += A

Console.WriteLine("Output of B += A is {0}", B)

'Use of -= Operator

B -= A

Console.WriteLine("Output of B -= A is {0}", B)

'Use of *= Operator

B *= A

Console.WriteLine("Output of B *= A is {0}", B)

'Use of /= Operator

B /= A

Console.WriteLine("Output of B /= A is {0}", B)

'Use of \= Operator

B \= A

Console.WriteLine("Output of B \= A is {0}", B)

'Use of ^ = Operator

B^A

Console.WriteLine("Output of B^A is {0}", B)

'Use of & = Operator

str &= name

Console.WriteLine("Output of str &= name is {0}", str)

Console.WriteLine("Press any key to exit...")

Console.ReadKey()

End Sub

End Module

OUTPUT

Result = str & str2 gives = Welcome

Result = str + str2 + str3 + str4 gives = Welcome to JavaPoint

6. Write a program of Concatenation Operators in VB.NET

Module MyProgram

Sub Main()

Dim str1 As String = "Wel"

Dim str2 As String = "Come"

Dim str3 As String = " "

Dim str4 As String = "to JavaPoint"

Dim result As String

Dim result2 As String

result = str1 & str2

Console.WriteLine("Result = str1 & str2 gives = {0}", result)

result2 = str1 + str2 + str3 + str4

Console.WriteLine("Result = str1 + str2 + str3 + str4 gives = {0}", result2.Tostring)

Console.ReadLine()

End Sub

End Module

OUTPUT

A hand-drawn diagram of a Windows form. The form has a title bar with the text "Form1" and three standard window control buttons (minimize, maximize, close). Inside the form, there is a label with the text "Label1" and a button with the text "Click Button".

7. Write a program of Window form Controls Label, TextBox, Button, ListBox & Combo Box, Picture Box & Timer Control.

Label

```
Private Sub Button1_Click(ByVal sender As System.Object, ByVal e As  
System.EventArgs) Handles Button1.Click
```

```
    Label1.Text = "Welcome to Label"
```

```
    Label1.BackColor = Color.Aqua
```

```
End Sub
```