

Maya G C

Mayagc2000@gmail.com

Kodnest

Assignment

BITWISE COMPLEMENT OPERATOR:

- This operator is denoted by
- This operator is a unary operator because this operator perform operation on one operand
- This operator will convert the bits from 0 to 1 and 1 to 0, it returns the one's complement representation of the input value
- Application only for integral types, not for Boolean.
- Also called as negative bitwise operator.
- This operator also performs the operation bit-by-bit, basically it inverts the of its operand

Examples:

Class bitwise

```
{  
    Public static void main(String []args)  
    {  
        System.out.println(~4);  
    }  
}
```

4= 0 000000000000000000000000100

~4= 1 111111111111111111111111011 -> 1's complement

+1

000000000000000000000000101 -> 2's complement

BITWISE NOT OPERATOR :

The Not operator is a logical operator, represented in java by the ! symbol, it's a unary operator that takes a Boolean value as its operand.

The not operator works by inverting (or negative) the value of its operand.

Examples:

Class bitwise

```
{  
    Public static void main(String []args)  
    {  
        System.out.println(!true);  
    }  
}
```

BIGINTEGER IN JAVA:

In java the Big Integer class is part of the java. Math package and is used to represent arbitrary-precision integer. It allows you to perform arithmetic operation on integers that are too large to be handled by primitive data types like int, or long.

The Big Integer class provides method for addition, subtraction, multiplication and more.

Examples:

Int a, b;

Big Integer A, B;

A=54;

B=23;

A = BigInteger.valueOf(54);

B = BigInteger.valueOf(23);