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BITWISE OPERATOR

LEFT SHIFT OPERATOR(<<)

The left shift operator moves all bits by a given number of bits to the left.

Example : 5

Converting 5 to 8 bit binary number

00000101 -> 8 bit binary code of 5

5<<2 : means shift two bit to left

Before shifting = 00000101
After shifting   = **00010100**

Value of 5 after left shifting by 2 is **20**

Program

```java
class Bitwise
{
    public static void main(String args[])
    {
        int a=5;
        int ans= a<<2;
        System.out.println("value of 5 after left shifting bits by 2 is : "+
ans);
    }
}


//  output
// value of 5 after left shifting bits by 2 is : 20
```

RIGHT SHIFT OPERATOR(>>)

The Right shift operator moves all bits by a given number of bits to the right.

Example : 5

Converting 5 to 8 bit binary number

00000101 -> 8 bit binary code of 5

5>>2 : means shift two bit to right

Before shifting = 00000101
After shifting   = 00000001

Value of 5 after left shifting by 2 is **1**

```java
class Bitwise
{
    public static void main(String args[])
    {
        int a=5;
        int ans= a>>2;
        System.out.println("value of 5 after right shifting bits by 2 is : "+
ans);
    }
}

// output
// value of 5 after right shifting bits by 2 is : 1
```