

JAVA BITWISE OPERATORS EXAMPLE

http://www.tutorialspoint.com/java/java_bitwise_operators_examples.htm

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The following simple example program demonstrates the bitwise operators. Copy and paste the following Java program in Test.java file and compile and run this program:

```
public class Test {  
  
    public static void main(String args[]) {  
        int a = 60; /* 60 = 0011 1100 */  
        int b = 13; /* 13 = 0000 1101 */  
        int c = 0;  
  
        c = a & b;          /* 12 = 0000 1100 */  
        System.out.println("a & b = " + c );  
  
        c = a | b;          /* 61 = 0011 1101 */  
        System.out.println("a | b = " + c );  
  
        c = a ^ b;          /* 49 = 0011 0001 */  
        System.out.println("a ^ b = " + c );  
  
        c = ~a;             /* -61 = 1100 0011 */  
        System.out.println("~a = " + c );  
  
        c = a << 2;         /* 240 = 1111 0000 */  
        System.out.println("a << 2 = " + c );  
  
        c = a >> 2;         /* 15 = 0000 1111 */  
        System.out.println("a >> 2 = " + c );  
  
        c = a >>> 2;        /* 15 = 0000 1111 */  
        System.out.println("a >>> 2 = " + c );  
    }  
}
```

This would produce the following result:

```
a & b = 12  
a | b = 61  
a ^ b = 49  
~a = -61  
a << 2 = 240  
a >> 2 = 15  
a >>> 2 = 15
```