BITWISE RIGHT SHIFT OPERATOR IN JAVA

- When we type x>>n, you tell the computer to move the bits x to the right n places.
- When the value of a number is shifted to the right "n" places the right most "n" bits are lost.

Syntax:

Left_operand>>n

⇒ Right shift by 1 Divides the number by 2 in java

Ex: let's take a number 25 the output would be 12



⇒ Right shift by 2 removes two bits from right side of a binary number

Ex: 25 → binary conversion is 11001

 \rightarrow 11001>>2 would be 110 therefore the value of binary number 110 is "6".

```
Main.java
                                                                            Run
                                                                                       Output
                                                                                     java -cp /tmp/LIiKPBErvk bitwise
1 class bitwise
3
       public static void main(String[]args)
4 =
5
           int a = 25; //binary convertesion is 11001
6
        int b = a>>2; //removes two bits from binary number i.e is 110
7
           System.out.println(b);
8
       }
9 }
10
```

BITWISE LEFT SHIFT OPERATOR IN JAVA

⇒ Left shift by 1 Multiplies the number by 2 in java

Ex: 25 number multiplied by two in left shift by 1 is 50

```
Main.java
                                                                          Run
                                                                                    Output
                                                                                   java -cp /tmp/LIiKPBErvk bitwise
1 class bitwise
3
       public static void main(String[]args)
4 =
          int a = 25;
 6
          int b = a<<1;
7
         System.out.println(b);
8
9 }
10
```

⇒ Left shift by 2 adds two zeroes two a binary number

Ex: 25 binary conversion is 11001 after left shift by 2 it will become 1100100

The value is 100

