BITWISE RIGHT SHIFT OPERATOR IN JAVA

Right shift by 1 Divides the number by 2 in java
Ex: let's take a number 25 the output would be 12

```
Run
Main.java
                                                                                       Output
1 class bitwise
                                                                                      java -cp /tmp/LIiKPBErvk bitwise
                                                                                      12
3
       public static void main(String[]args)
4 -
5
           int a = 25; //binary convertesion is 11001
         int b = a>>1;
           System.out.println(b);
8
       }
9 }
10
```

⇒ 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
                                                                                         Output
1 class bitwise
                                                                                        java -cp /tmp/LIiKPBErvk bitwise
2 * {
                                                                                        6
3
       public static void main(String[]args)
4 ▼
5
           int a = 25; //binary convertesion is 11001
           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
 1 class bitwise
                                                                             java -cp /tmp/LIiKPBErvk bitwise
                                                                             50
 3
       public static void main(String[]args)
 4 -
5
     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

```
Main.java
                                                             75 6
                                                                       Run
                                                                                  Output
                                                                                 java -cp /tmp/LIiKPBErvk bitwise
1 class bitwise
3
       public static void main(String[]args)
4 =
           int a = 25; // binary conversion is 11001
5
int b = a << 2; // adds two zeroes two the binary number i.e 1100100
7
          System.out.println(b);
8
9 }
10
```