lesson 38 bitwise Operator RIGHT SHIFT

RIGHT SHIFT, takes two numbers, right shifts the bits of the first operand(number), the second operand decides the number of places to shift.

```
int x=5;

int z = x >> 1 ;
```

5 in binary equals 1 0 1

Here we are going to move the binary numbers of 5 to the right and the number of bits we are going to move is 1.

64	32	16	8	4	2	1	
0	0	0	0	1	0	1	→ x in binary
0	0	0	0	0	1	0	← x >> 1

0 1 0 to decimal is 2

example 2 :

```
int x=6;

int z= x>>2;
```

64	32	16	8	4	2	1	
0	0	0	0	1	1	0	x in binary
0	0	0	0	0	0	1	x >> 1

We moved the binary bits of 6 to the left, now we have

01 (2) = 2 (base10)

We can conclude that the result = **x / 2^y**

example 3 :

```
int x= 62 ;
int z = x >> 4 ;
```

z = x / 2^4 = 62/2^4 = 3

```
printf("%d", 62 >> 4);
```

Try the Code: Click Here!