

# Operators java

for

①  $4^3$  (Power of 2  $\rightarrow 4$ )

0000	0000	0000	0000	0000	0000	0000	0100
0000	0000	0000	0000	0000	0000	0000	0011
0000	0000	0000	0000	0000	0000	0000	0000

Ans = 0

② Cube ( $3^2 = 9, 8$ )

0000	0000	0000	0000	0000	0000	0000	1001
							1000
							1000

X

Cube is not a

③ Square root ( $\sqrt{4} = 2$ )

0000	0000	0000	0000	0000	0000	0000	010
0000	0000	0000	0000	0000	0000	0000	001
0000	0000	0000	0000	0000	0000	0000	0000

Ans = 0

Here if we notice that square root is also nothing but the square power of 2. So

Answer = Power of 2

i.e. Square root  $\sqrt{4} = 2$ ,

2 and 4 is nothing but power of 2.

class Temp  
{

psvm (String[] a) {

int x = 10, a;

int y = -10, b;

a = x >> 2;

b = y >>> 2;

}

→

(1) a = x >> 2

→

binary of x (10) :- 0000 0000 0000 0000 0000 0000 0000 1010

binary of 2 ~~0000 0000 0000 0000 0000 0000 0000 0010~~

x >> 2 0000 0000 0000 0000 0000 0000 0000 0010

[010 - 2]

(2) b = y >>> 2

(o/p नेहमी Positive च सेन जरी input negative असेल तेव्हा)

binary of y (-10)

0000 0000 0000 0000 0000 0000 0000 0101

1's Comp:-

1111 1111 1111 1111 1111 1111 1111 1010



Right shift by 3

0001 1111 1111 1111 1111 1111 1111 0000

0110 1011 0101 1010 1101 1011 1010 1011

Date:

