Bitwise oPerator

All Bitwise oferator works on bits level

i) Bitwise AND (&)

586 =>

5 = 101

6=110

586 => 4

2 10 1 1 10 0 ⇒ 4

iv) Bitwise NoT (~)

unary oferator

$$\sim 5 = \sim (00000000 - ... 00000101)$$

$$\sim \chi = -(\chi + 1)$$

It blips the bits

$$\frac{a << n = a x a^n}{a}$$

No. of times left shift oferation to be Performed.

· This operator shift all bits left side & odd o to LSB & discard the MSB.

· Left shifting a negotive no. is un defined.

vi) Right shift oPerator (>>)

•
$$a >> n = a/a^n$$

· signed integer handler -ve no with right shift but in unsigned integer -ve no will give o very large +ve no.

1111111 ----- 1/110110

Marwe can get -1 while doing right shift on a -ve number.

• We cannot shift by a -ve no. as garbage value is throwns.