

## Bitwise Operator

- When you are shifting , one of the bits will be vacant so that has to be filled with 0

- Left and Right shift

int x = 5 , y;

X = 0 0 0 0 0 1 0 1  
0 0 0 0 0 1 0 1   —

- When you shift all the bits on left hand side by one space then 5 will get multiplied by 2 , if you move them by 2 space it will be multiplied by 4
- Here signed bit is not included , if the number is positive then it will be positive and vice versa
- In right shift the signed bit is untouched it remains -ve only whereas in unsigned right shift the bit become +ve
- In NOT if you take any number suppose 10 it will become -11, if you take 6 it becomes -7

