Bitwise Operator

- These operators are performed on the bits of the data and not as the single whole data unit
- · The operations available here are
- & and
- or
- xor
- not
- < left shift
- >> Right Shift
- · Its working

bit 1	bit 2	bit 1 & bit 2
0	0	0
1	0	0
0	1	0
1	1	1

bit 1	bit 2	bit 1 bit 2
0	0	0
1	0	1
0	1	1
1	1	1

bit 1	bit 2	bit 1 ^ bit 2
0	0	0
1	0	1
0	1	1
1	1	0

 If you are making device drivers, systems program, System application, core system program and in general if a person is working more close towards electronic there this operator is used • Left and Right shift

int x = 5, y;

- 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