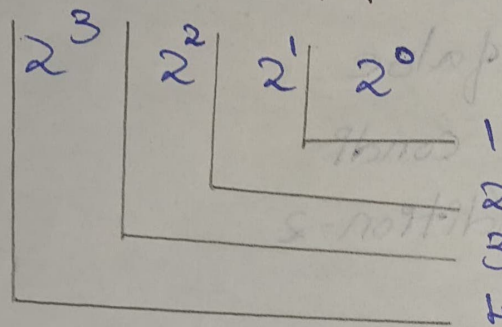


10/Sept

# Bit wise Operator :-

$$8 + 4 + 2 + 1$$



- 1 Bit - 0, 1
- 2 Bit - 0, 1, 2, 3
- 3 Bit - 0, 1, 2, 3, ..., 7
- 4 Bit - 0, 1, 2, 3, ..., 15

$2^0$	-	1
0	-	0
1	-	1

2 1

2	2	
0	0	- 0
0	1	- 1
1	0	- 2
1	1	- 3

4 2 1

4	2	1	
2	2	2	
0	0	0	- 0
0	0	1	- 1
0	1	0	- 2
0	1	1	- 3
1	0	0	- 4
1	0	1	- 5
1	1	0	- 6
1	1	1	- 7

<sup>1</sup>	<sup>3</sup>	<sup>2</sup>	<sup>1</sup>	<sup>0</sup>
2	2	2	2	2
16	8	4	2	1

$$1101 - 13$$

$$1001 - 19$$

$$1011 - 11$$

$$1101 \gg 2$$

$$11 - 3$$

$$1101 \ll 2$$

$$2^5 2^4 2^3 2^2 2^1 2^0$$

$$110100 - 52$$

$\overline{1n} \overline{1n} \overline{1n} H Tu$

1 2 4 5

Nested :-

i) Outer if

ii) inner if