Bit Manipulation 2 --- 0 -) Bhary 3 -> || 4-2100 5-) 101-): Decinal 674 -) 2 value (0,1) 2 bit -> 4 valus (0,1,2,3) 3bib -> $0 \rightarrow 2^3 - 1 (0-7)$ 46h -> 0 -> 2⁷-1 (0-15)

* How to store ngative in memory 1's Complement 2's Complement This is bet _5 (Sall 1) 0) 1) 1 Somplement

If 4 bits and nggtive value es what is if deimal Value $\frac{1}{1000}$ $\left(\frac{m-1}{2}+2^{m-1}\right)$ L) Ronge of 2 'S Complement bit ised for storing

>> -> Right shift 1-0R >>> -> feigle zight shift A -> AND ~) I's complaint 1 -> XOR LL -) left shif 0 1—) <u>1</u> 1 0—) <u>1</u> J AND $0 \quad 0 \longrightarrow 0$ 0 1 -) 0 [0 —) D (1 -) /

