## BITWISE OPERATORS

1) Bitwise AND: (&)

K	1-81	AIVO	100 0- 4 >> 101
0	0	O	Eg7 5 27: 101
0		0 110	101 = 3
- · L	0	-0 cult	(0) = (5)
1	1	1	

2 Bihoise OR: (1) a pefalum no acos land ne x.

00 200 g	OR >> 2 2 105 10: 0103 1 maison 101 1 111: 7	-
0	1111 . 7	μ
notion or house		
	1	

3 Bitwise NOT : (~)

$$2$$
 | NOT | Eg: (Consider 4-byk representation)

 $1$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$  |  $0$ 

introples midnes à problèg ~2.5 m. 001 de photosis

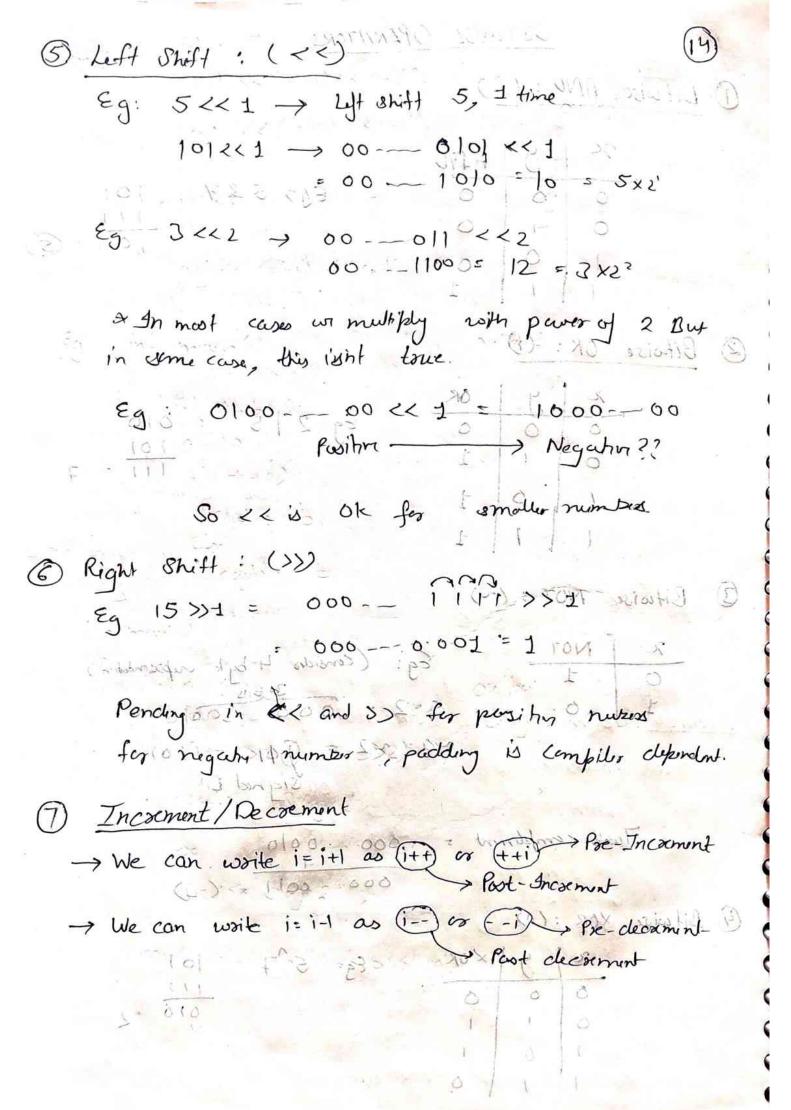
@ Sitwise XOR: (0) 00 1-1:1

こうこうこうこうこうこう

har core	10 901	XOR	
0.	0	0	-
٥	1	1	
.,	٥	1	
1,	1	0.	

Eg. 
$$5^7 = 101$$

$$\frac{111}{610} = 2$$



```
Post incoment: The value gets used first and
           incoment isono as (14) as luis
        Egittaint 1=3, a=2;
             int sum = a+ (i++);
              Sum = 2 +3;
             - Sum = 5;
               Now its 4
  Px incommunt: The value get incommented fixt and
          thin gets used. I want this is
        Eg. int i=3, a=2;
             int sum = a + (++i); that become 4 first
              Sum = 2+41
                             (art) +;
              Sum = 6;
Post-Deidement: The value gets used frost and then
               decoments
                            cont >> lus
        Eg: int i=3, a=2;
          int sum = a (Ci-);
                                      int make ()
              Sum = 151
        2 0 1 Naw 1 3 2
Pre-Decrement: The value gets decrement first and then
              gets used. "Lipst 3">> Lus
       Eg: int i=J, a=2
            int oum = a+ (-i); i how become 2 from
               sum = 2+2 : " S pote >> 1235
               Sum
               Le Piceus
```

Eg cout << (++i) << endl; output cont ec (itt) ecendl; cout << (i-) << endl) 119 , i=8 cart << (--i) << endly 1 = cold Extractions: The volume got instrument of 1 outputs Eg int main () int a = 5=1; if (+ +a) out DAD CONTICCOS Pest De De De Vidue Cate contic ++6, . Es : hint i = 2. inf man U output int a=1 int 6 = 2; Stage 1 0 3 130- Occommed: The value 3 64+6/2) the value 3 61000 The cond << "Stage 1"; محل لالعود. coul << "stage 2"; coul 2<a 2<" "2<b << end);

int main U 2 int a=1 stage 1 0 2 int 6 = 2; if (a -- > 0 11 ++6>2) Hint & conly one of the conditions must be true cont << "Stage 1"; the 100 for 11 so il- won't 3 elx check ++6>2. ¿ cut << "Otage2"; Josh : Florida cont << a <<" "<< b << end); 25 " ENDO 14 Velus of no 22. int main () inthin =3, tomos incos cout << (25 \* (++num)); Thorse is so has int man () output it 13 int a=1 int b = att; Enter the value of in int c : tta; painting court from I ben cont < < b; ( aut < < c ; es the 2 part outside Note: Youcen delan . The passintress