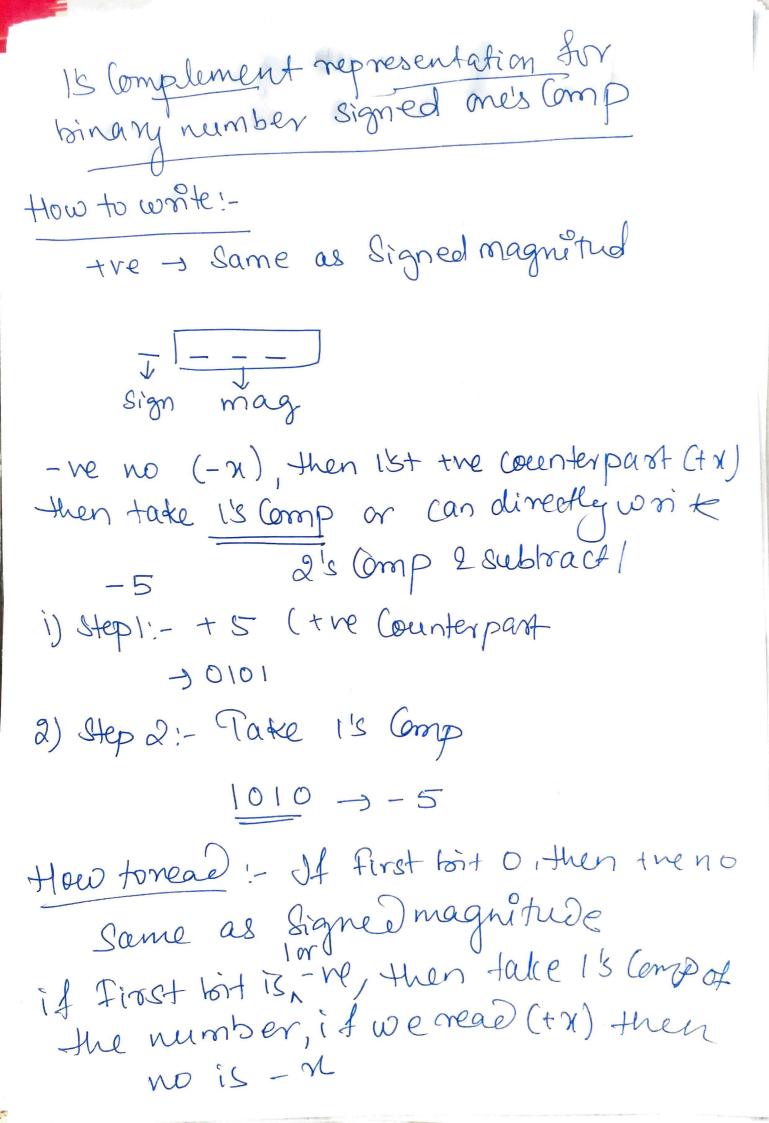
4bits			
Decimal	Signed Magnitude	l's Comp lement	2's Complener
+7	0111	0111	0111
+6	0110	0110	0110
† 5 † 4	0101	0101	0101
+3	0100	0100	0100
	0011	0011	0011
†2	0010	0010	0010
+ 1	0001	0001	0001
+ 0	0000	0000	0000
- 0	> 1000	1111	0000
- -	1001	1110	1 1 1 1
-2 -	1010	1101	1110
-3 -	101	1100	1101
- 4 -	1100	1011	1100
-5 -	> 1101	1010	1011
-6-) 1110	1001	1010
- 7 -		1000	1001
- 8		-	1000
0			



345 -) 300 + 40+5 weighted Coele. Cannot be read or write, addition 2 subtraction cui 11 be difficult. Signed Entension

0101

-65752100

100000010

-2

veno
1100
00000011 -> +3

2's Complement
* Any Computer uses 2's Compolement for Signed
umbers.
* - ve no is same (signed July sign n-1 mag
* - ve no
i) - x is converted to +x, takes 15 Comp and add 1
in and add !
$ \begin{array}{c} 1 + 5 \\ 1010 \\ \hline 1 + 5 \end{array} $ $ \begin{array}{c} 15 \\ \hline 1011 \end{array} $ $ \begin{array}{c} 1 \\ \hline 1011 \end{array} $ $ \begin{array}{c} 1 \\ \hline 1011 \end{array} $
- It - add 1
1011
2) - 21 is converted first one is - vernag and
remaining the mag.
-5 -2 = -1
-8+3 $-2'=-2$
$-2^2 = -4$
$\frac{1011}{\sqrt{2^{3}2^{1}2^{\circ}}} - 2^{3} = -8$
-ne weight
-2+2
- 6
-3 -4+21 -8+2
$\begin{array}{c} 3 \rightarrow -4+21 \\ 101 \\ -8 \\ 2 \end{array}$
13
-16+3 = 10011

$$-8+4+1 = -3$$

$$1101 = -3$$

$$0010$$

How to read: - If 1st boit 0, read it directly It bit is 1, Subtract 1 from number to Convert to is comp, then and (+7), then - N, other waise &

$$0011 \rightarrow +3$$
 1101
 4
 $-8+4+1=-3$

How to read: - If 1st boit 0, read it directly
It boit is 1, Subtract 1 from number to
Convert to 1's Comp, then and (+7), then
- x, otherwise &

