Starting With binury conversions. 42 - 23 = 11 = 5 = 2 = 1 = 0 =>1> = 00101111 62 - 41 - 20 = 10 - 5 = 2 = 1 = 0 = 282 = 01010010 $\frac{127}{2} = \frac{63}{3} = \frac{31}{3} = \frac{15}{3} = \frac{1}{3} =$ $\frac{129}{3} - \frac{64}{3} - \frac{32}{3} - \frac{16}{3} - \frac{8}{3} - \frac{1}{3} - \frac{2}{3} - \frac{1}{3} = 0 = 10000001$ $\frac{243}{2} = \frac{121}{2} = \frac{60}{2} = \frac{30}{2} = \frac{15}{2} = \frac{3}{2} = \frac{1}{2} = 0 = \frac{1111}{2} = \frac{0011}{2}$ -23=> Sturt with 23 & us 2's complement $\frac{1}{2} = \frac{1}{2} = \frac{1}$ 2'5 con. add 1 = > 1110 1001 = - 23 = >0100 0011 => 1011 1100, add1 => 1011 1101=-6>

2's comp.

$$-255 = \frac{1}{2} = \frac{1}{2} = \frac{1}{3} = \frac{1}{3}$$

=> 1111 1111 => 0000 cobo, all => 1111 1111 cobo acc 1

Now doing conversions from deciment to hex:

$$\frac{17}{16} = \frac{15}{16} = 0 = 0, 15 = F = 0$$

$$82 - 5 = 524 - 82$$

$$\frac{129}{16} = \frac{8}{16} = 0 = 81_{H} = 129$$

$$\frac{243}{16} = \frac{15}{16} = 0 = F3_{\mu} = 243$$

-23, Storting with proviously found binery rep. A converting to hex

 $0 \times AB = > 10.16^{6} + 11.16^{6} = 160 + 11 = 171$ for unsigned number in binary, $\frac{171}{2} = \frac{85}{2} = \frac{42}{2} = \frac{21}{2} = \frac{10}{2} = \frac{5}{2} = \frac{2}{2} = \frac{1}{2} = 0$ = > 10101011, since MSB is 1, subtruct 1 + invert, = > 10101010 = > 01010101 = > 26 + 24 + 27 + 20 = 64 + 16 + 4 + 1 = 85 = > -85 for signed number