Sub pacha of two re numbers in binary o-When Both Number is negative there are two 1) nitu overflow 3 mithout-overflow I Mithentoverflow dala  $-2 \rightarrow -10 \rightarrow$ to represent sign. initiate one signibil- so -1 -> -01 -3 -11 horis data

cigy OTO Comp.

bit OO | I's ampley means "ilioo, nearly no. is negative so (iscomplement of Result)

(I) hith overflow data

-2 - 10 -3 - 11 -5 [10] overflow

so to overcome this overflow we use one entry bit for the overflow they they topere we increase two more bits for (overflowt signs)

Mow, (sign) (for over from) 0010 11001 -re number so take ones complement again - (1's Complement of result) -(101) Aus

Mole! In general, if we take two more bit places
at the MSB Side then we don't required to
top eny attention regarding of a Love mentioned
from Cares, i.e. take two more bit in MSB every
time.