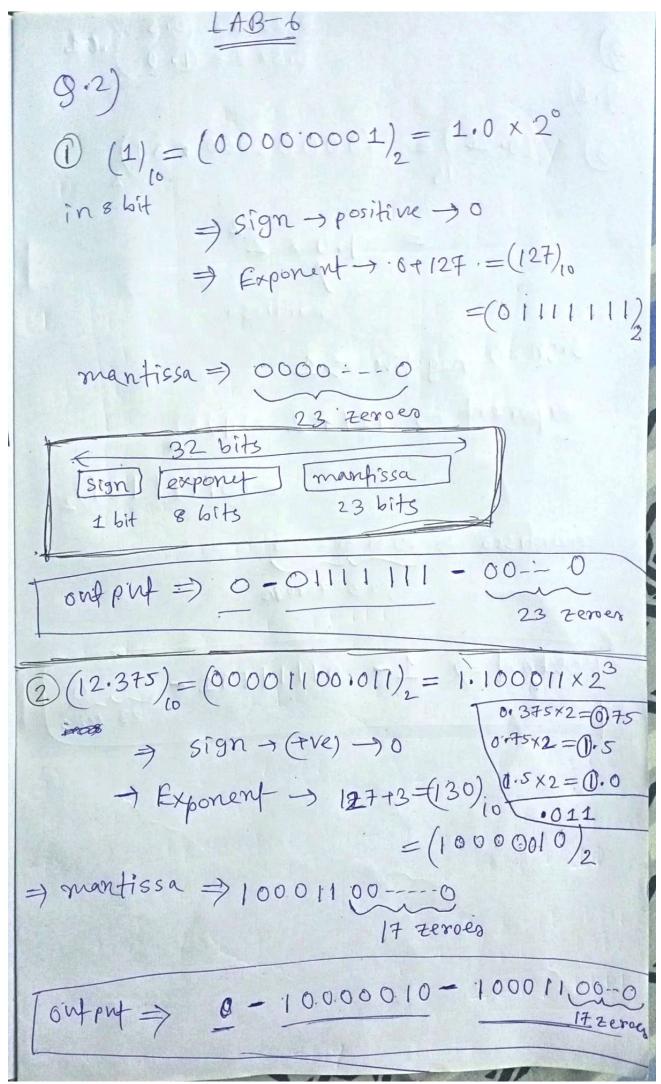


The resulting numbers (-75-54=-129) can't be represented in 8 bit's be course, the rounge of 2's complement is -2" to + (2"-1)  $\frac{50}{2}$  - 2 to  $(2^{\frac{7}{2}}-1)$  $\Rightarrow [-128 + 0.127]$ 59 in 9 bits, (-129) can be represented as (-129) = (10111111) in 9 bits



 $0.25 \times 2 = 0.5$   $0.5 \times 2 = 0.0$  $= 1.0 \times 2^{-2}$ sign => negetive => 1 exponent => 127+2 => (125)  $=(0!11!101)_2$ manfissa => 000--0 23 terrogs output => 1- 01111101 - 00-0