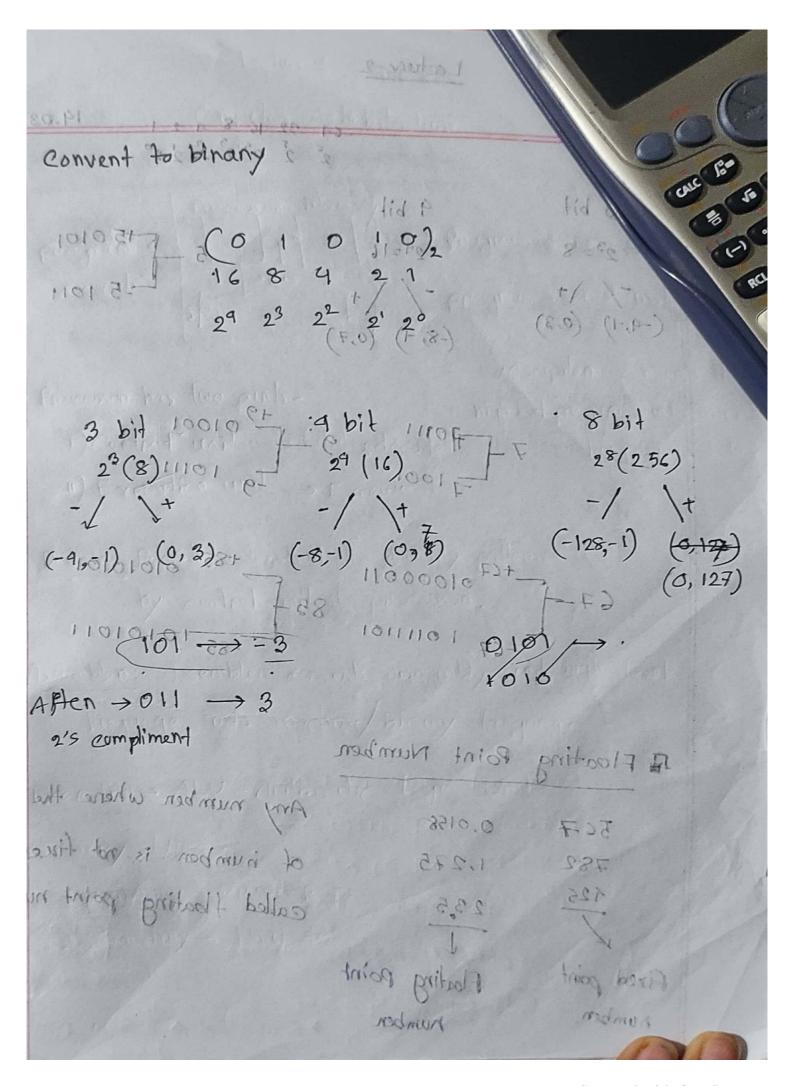
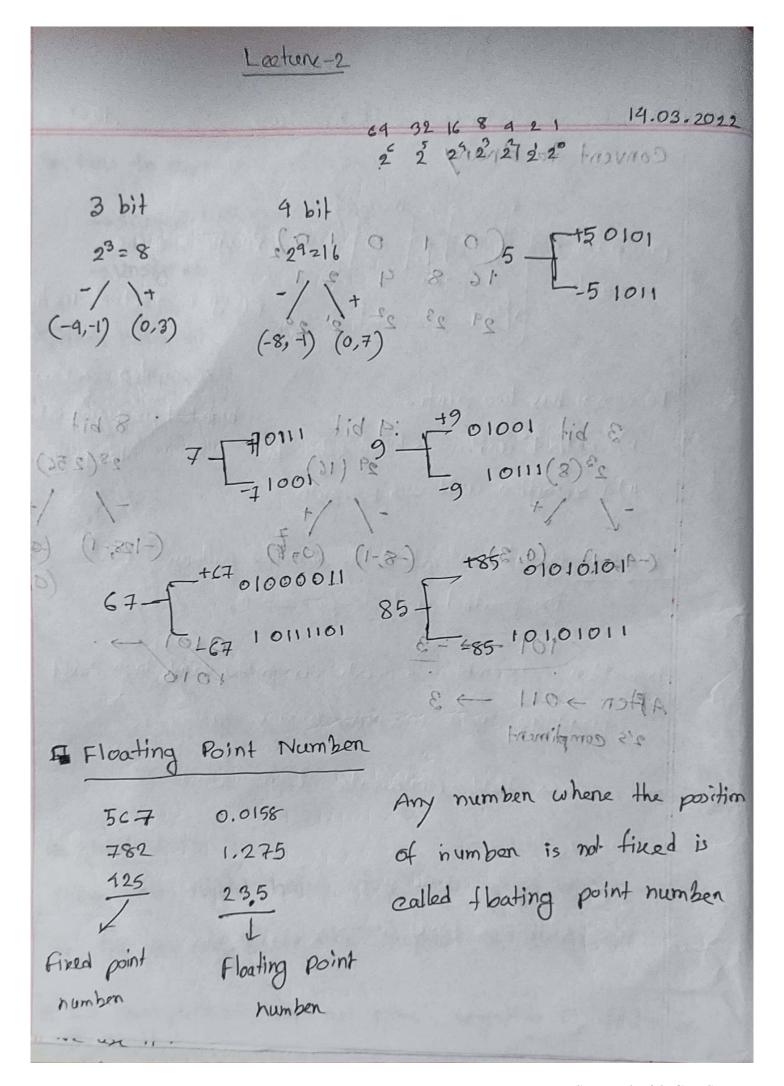
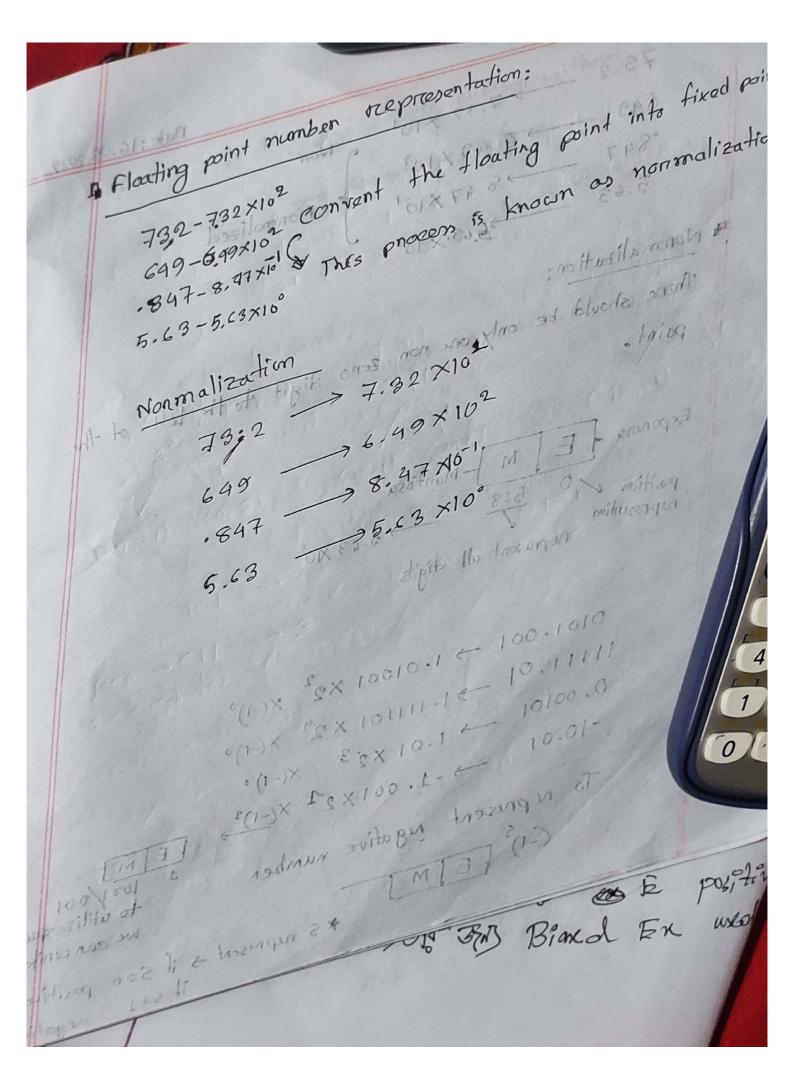
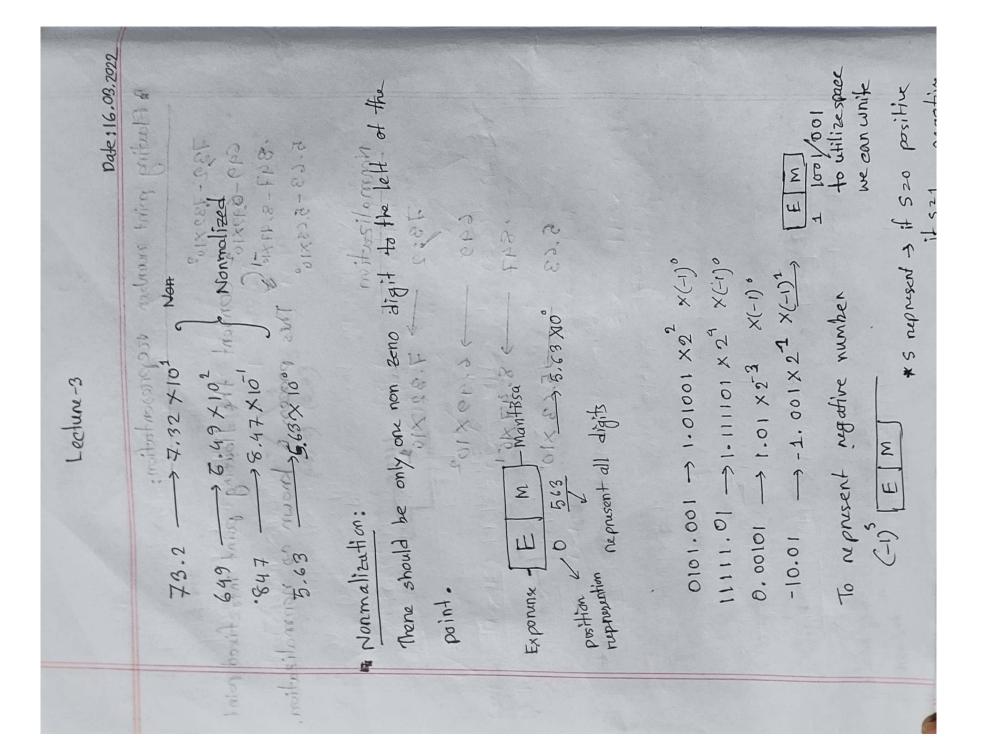


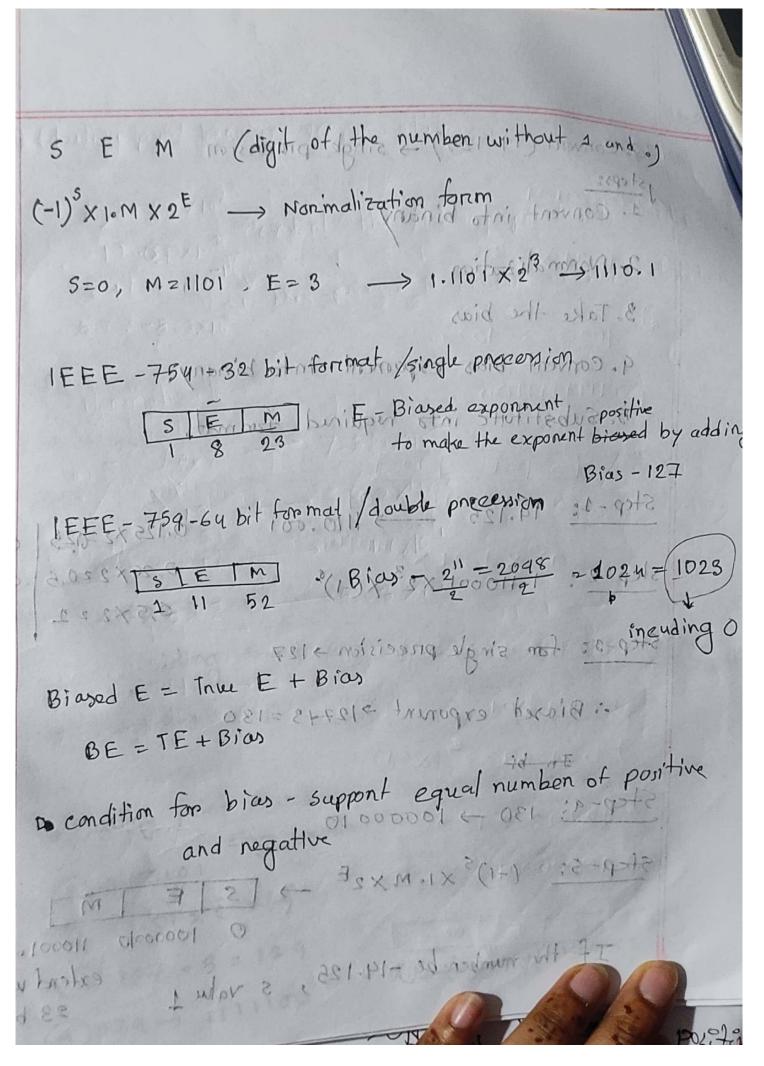
I motand
Computer antichilecture 12.09
He How to represent number. To get negative number
→ signed (can be + and -)  → unsigned (always +)  — ment.
Three methods - 3bit - 23-8 combinations
sign magnitude 2.1's complement 3.2's compliment
this mongroup of the state of the loss hard of the state
+1 001 shoot - time mit 2001
Det 1/1 : Decode undenstand der binary puller por 1-
and an amore and alonocopion.
2 111
100 100 longers trambles convents and light level
Another combination (-0/100) 111 tomissing 100
not valid sign sitemation - VIA + mailus x not -0
2 short-eut: - cogpt ynomsm
From the night hand side copy the number as it
is, till you get tinst, then invent everything.
* 2's compliment does not give negative 0, that's why we use it.











9. Convent (14.125) -> single precission 11 1 steps:

1. Convent into binary siloninon - dex Marx (1-) 2- Nonmalization, 8=7 1011=M 1000 3. Take the bias 4. Convent bias expanint into binary = 3771 5. Substitute into required format. Step-1: 14.125 - 1110.001 0.125 x2 2025 0 step 2: 1,110001 x23 x(21) 1 1 0,5 x2 2 1 1 Step-3: for single precision >127 Biasod E = Inu E + Bias : Biased exponent >127+3 = 130 entition for bias - support equal number of pointing of 5tep-a: 130 -> 10000010 to ond regarder step-5: (-1) 5 × 1. M×2 € -> | S | E 0 1000000 110001 mm extend up to If the number be -14.125, s value 1 23 bit

