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Ans to the question No. 1 (a)

09/05/1999

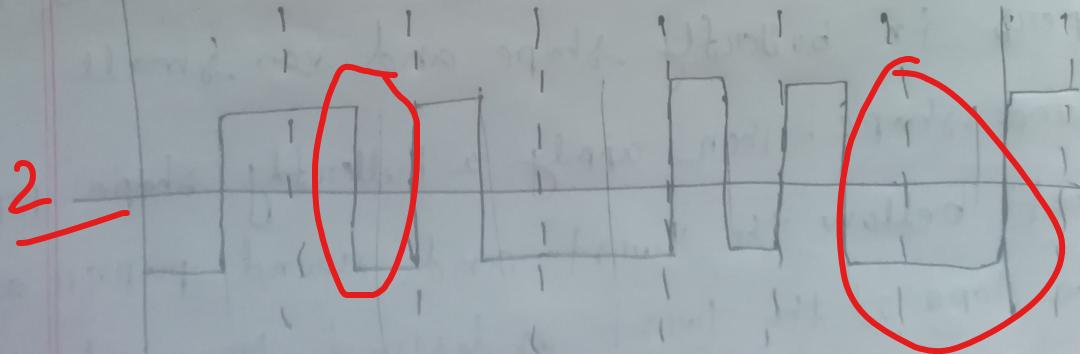
First 4 digit of my birthday = 0905

binary representation -

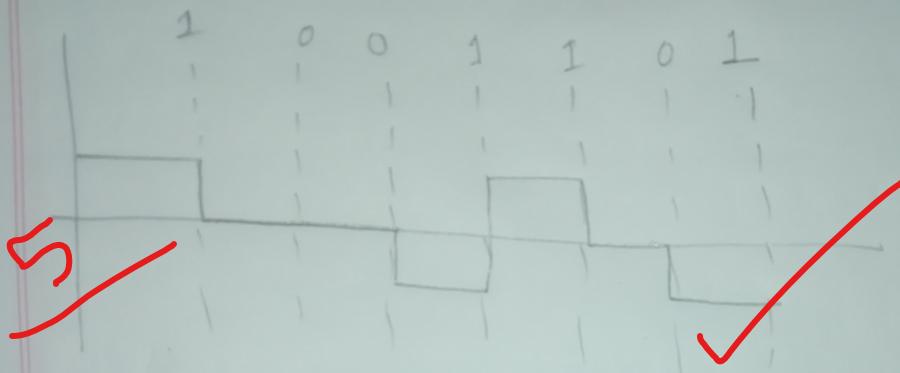
0905  $\rightarrow$  1001101

id=18101094 is not divisible by 3

a) differential manchester:

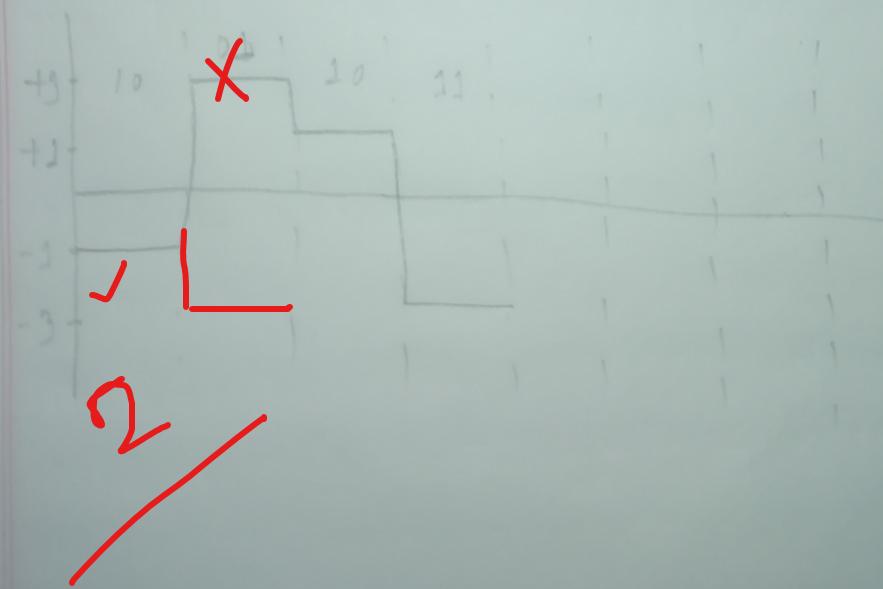


AMI



2B19

1 0 0 1 1 0 1 1



(b) There are 3 line coding here.

Unipolar, Polar and ~~bipolar~~ bipolar.

Unipolar:

In this scheme, all signal levels are either above or below the axis.

NRZ is unipolar coding scheme

Polar:

In polar schemes, the voltages are on the both sides of the axis.

NRZ-L and NRZ-I. They are opposite to each other.

NRZ - provides synchronization for 0s/1s

NRZ-L - level of the voltage determines the bit

NRZ-I - inversion on the lack of inversion.

Biphase — combination of RZ and NRZ-L ideas.  
Signal transition at the middle of the bit is used for synchronization.

G+ - think biphase seems better all of them. C2 ~~Manchester~~

There are 6 three levels of voltage, called multilevel binary.

AMI — alternative to NRZ with same signal rate and no DC problem.

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