

ID: 18101011

8

1.a) My Birthday is 02/06/1998

$$(0208)_{10} = (01001000)_2$$

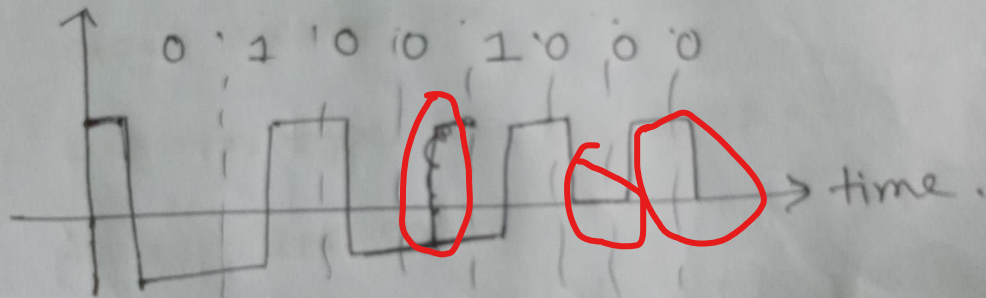
My id = 11

a) Manchester

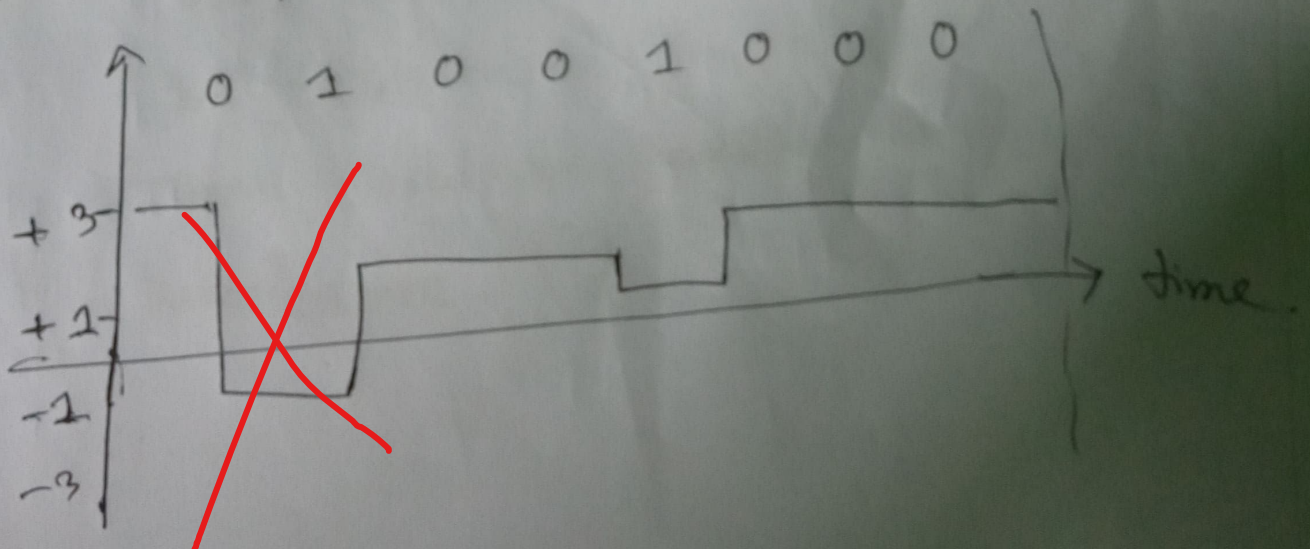
— used for Ethernet LAN

— Bit 1 : negative to positive transition

— Bit 0 : positive to negative transition.

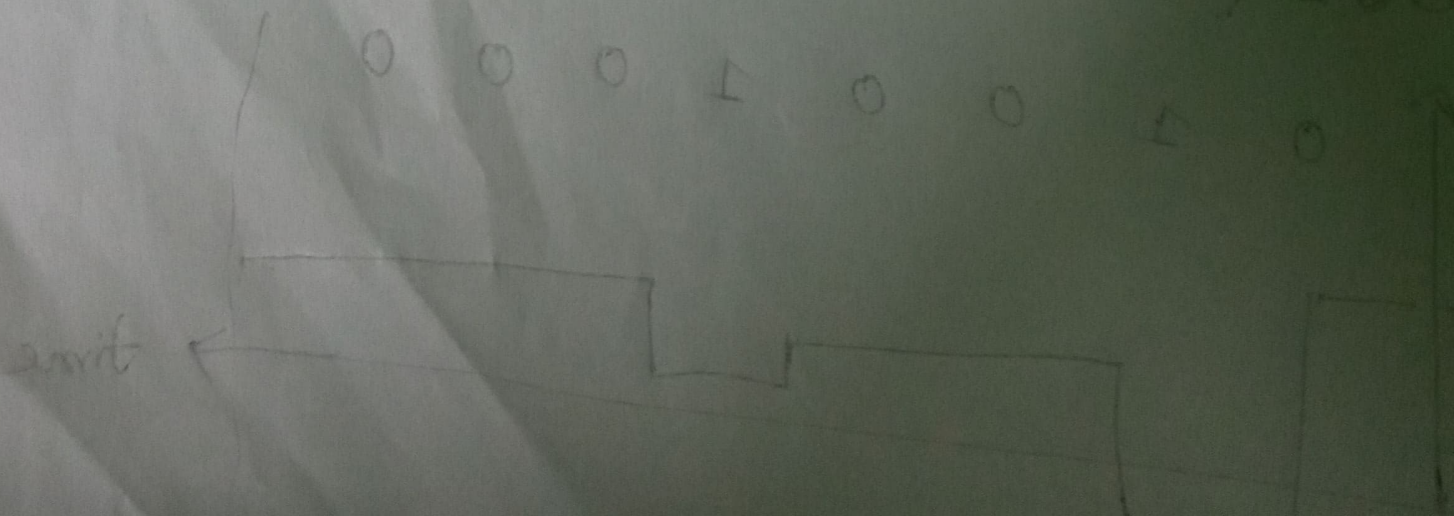
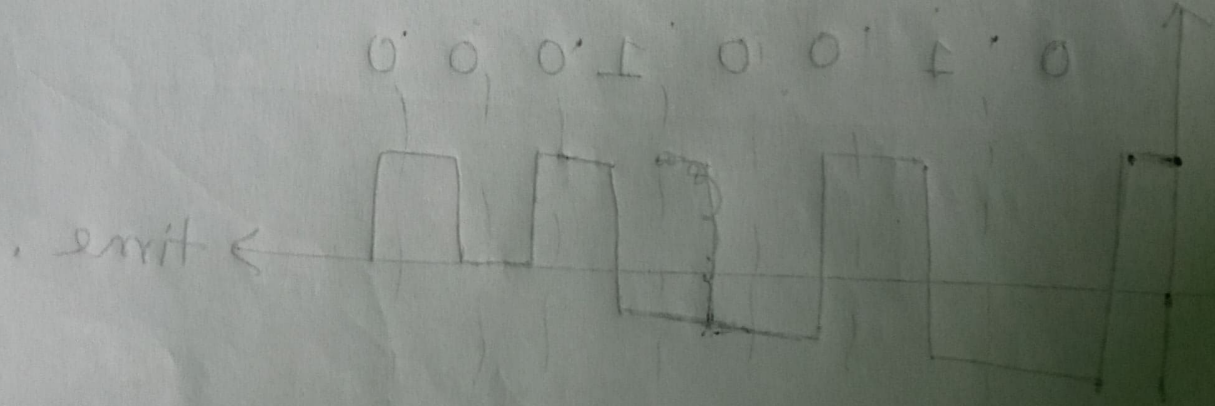
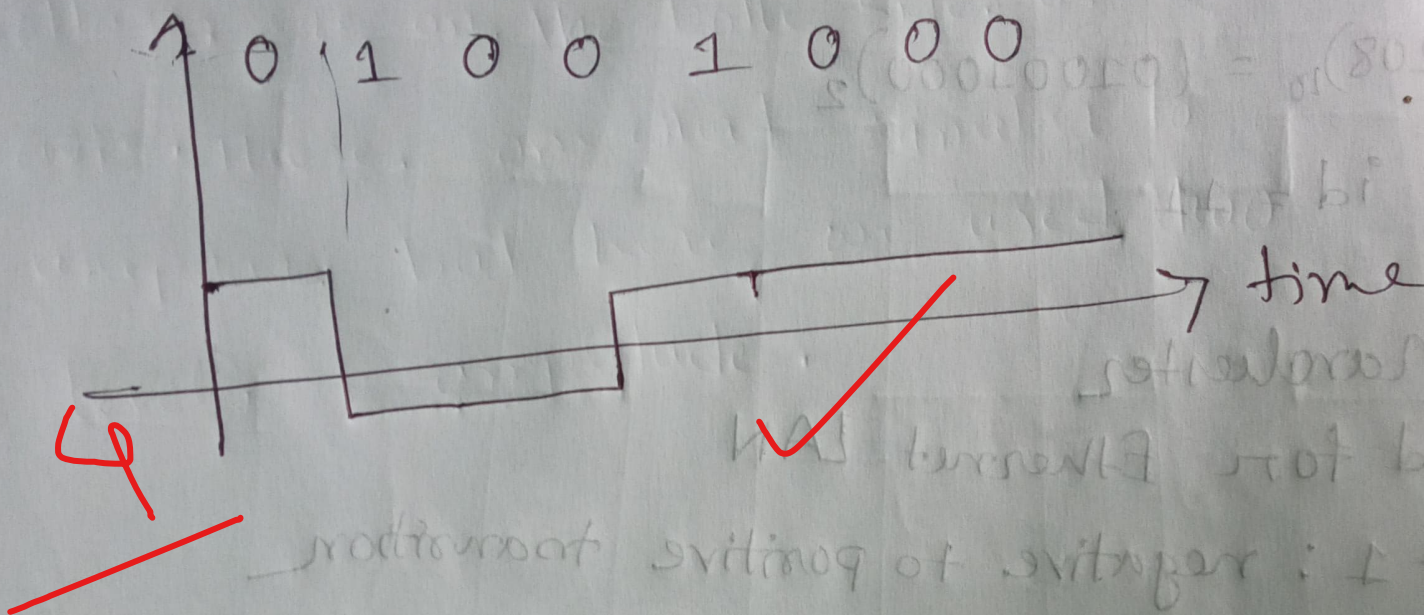


b) 20010





NRZ-I :





b) The common types of line encoding are unipolar, polar, bipolar and Manchester encoding. Line codes are used commonly in computer communication networks over short distances.

A line code is the code used for data transmission

of a digital signal over a transmission line.

This process of coding is chosen so as to avoid overlap and distortion of signal.

Common type is of characteristics of these three line coding -

~~They~~ There should be self synchronizing, both receiver and sender clock should be synchronized.

There should be immunity to noise and interference.



polar scheme is better. Because the voltages are on the both sides of the axis. These somewhat similar to 2 unipolar but here we used two levels of amplitude.