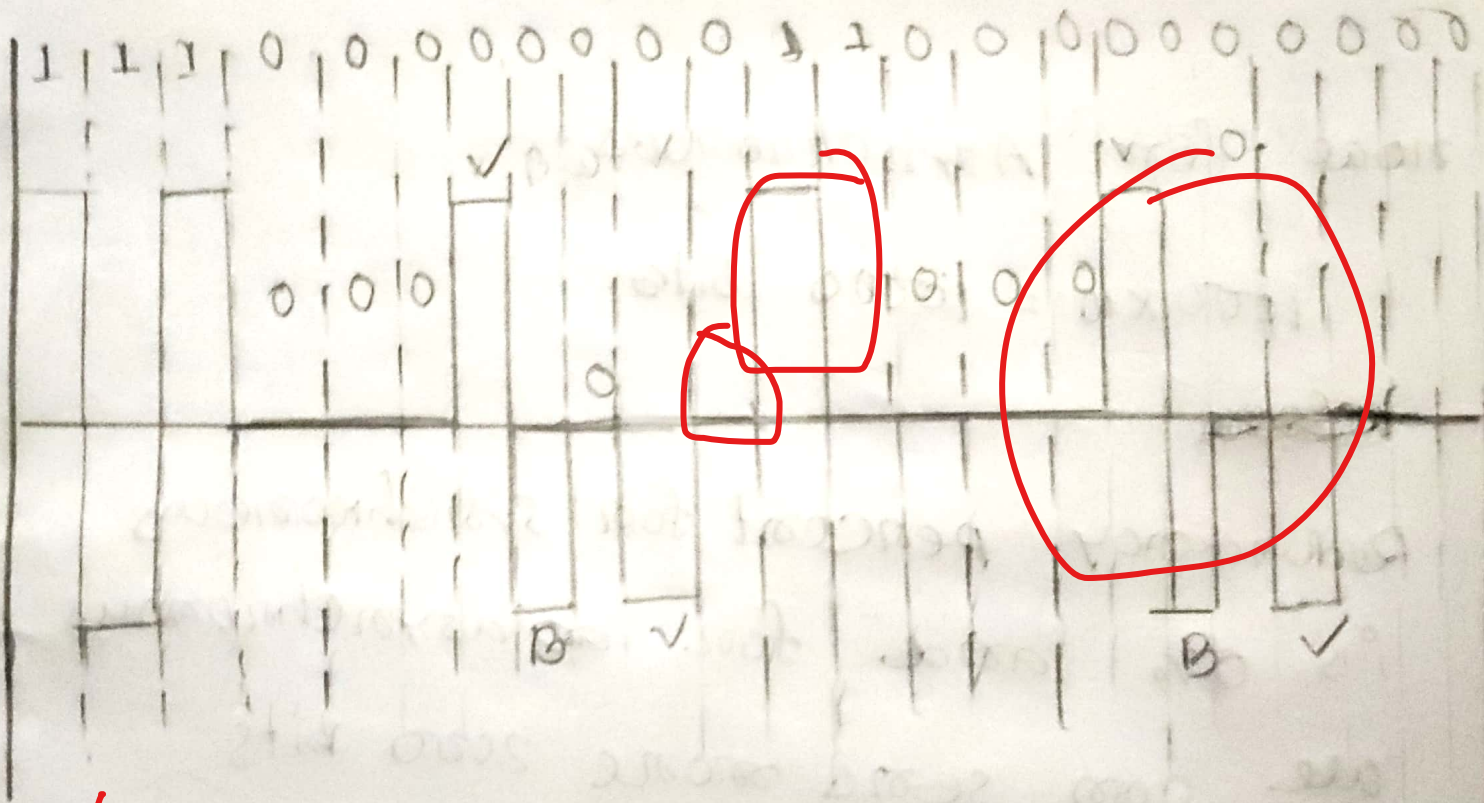


1) my id is 18101030.
so, it is even.

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Here, digital data is: 11100000001100000000



1.

(2) Here transmit characters is 1000

for synchronous:

we have, $1000 \times 8 = 8000$ bits

now for Asynchronous:

$1000 \times 10 = 10000$ bits.

~~Redundancy~~

Redundancy percent for synchronous
is 0% and for asynchronous

we can send more 2000 bits

than synchronous, so the redundancy
percent is 25%.

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