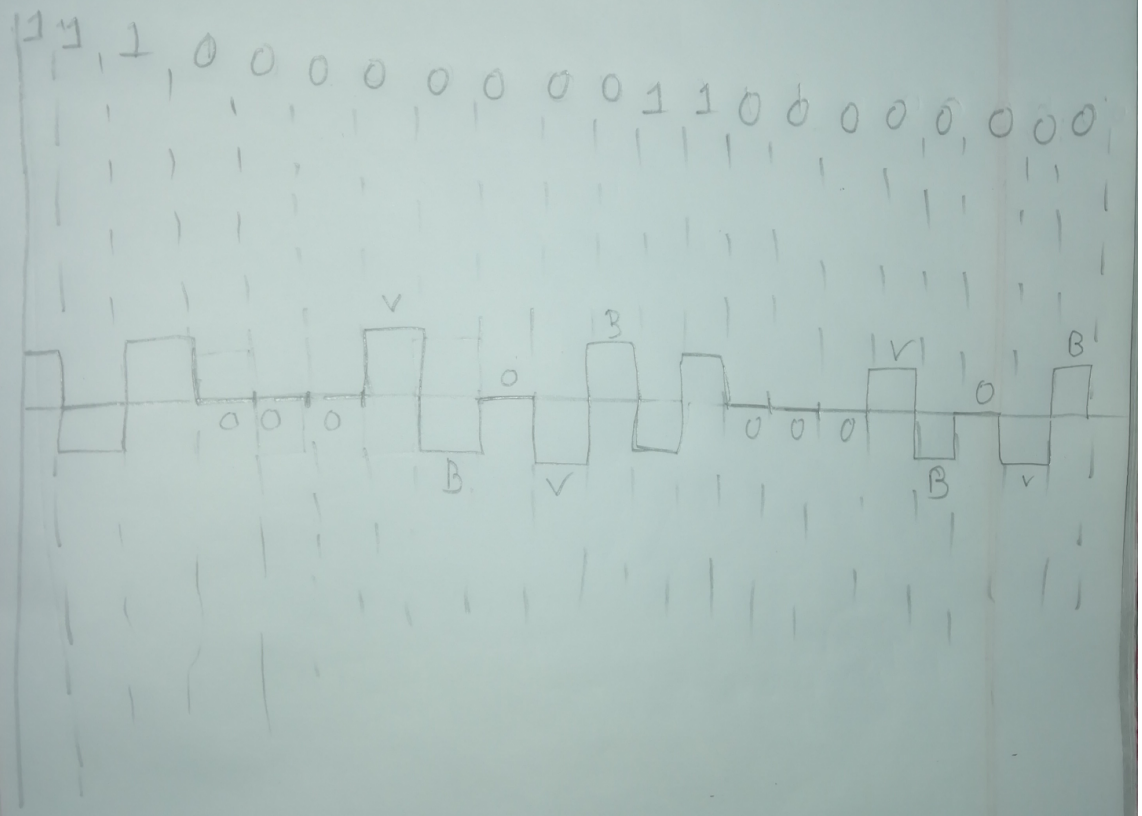
Ans to the Question no. 2

(a) The number of transmitted bits for synchronous transmission $= 1000 \times 8$
$= 8000$ bits.

(b) The number of transmitted bits for asynchronous transmisson $= 1000 \times 10$
$= 10000$ bits.

(c) In synchronous transmission the redundancy is 0%

And, in asynchronous transmission the redundancy is 25%. because we send 2000 bits extra.

Ans. to the question no. 1