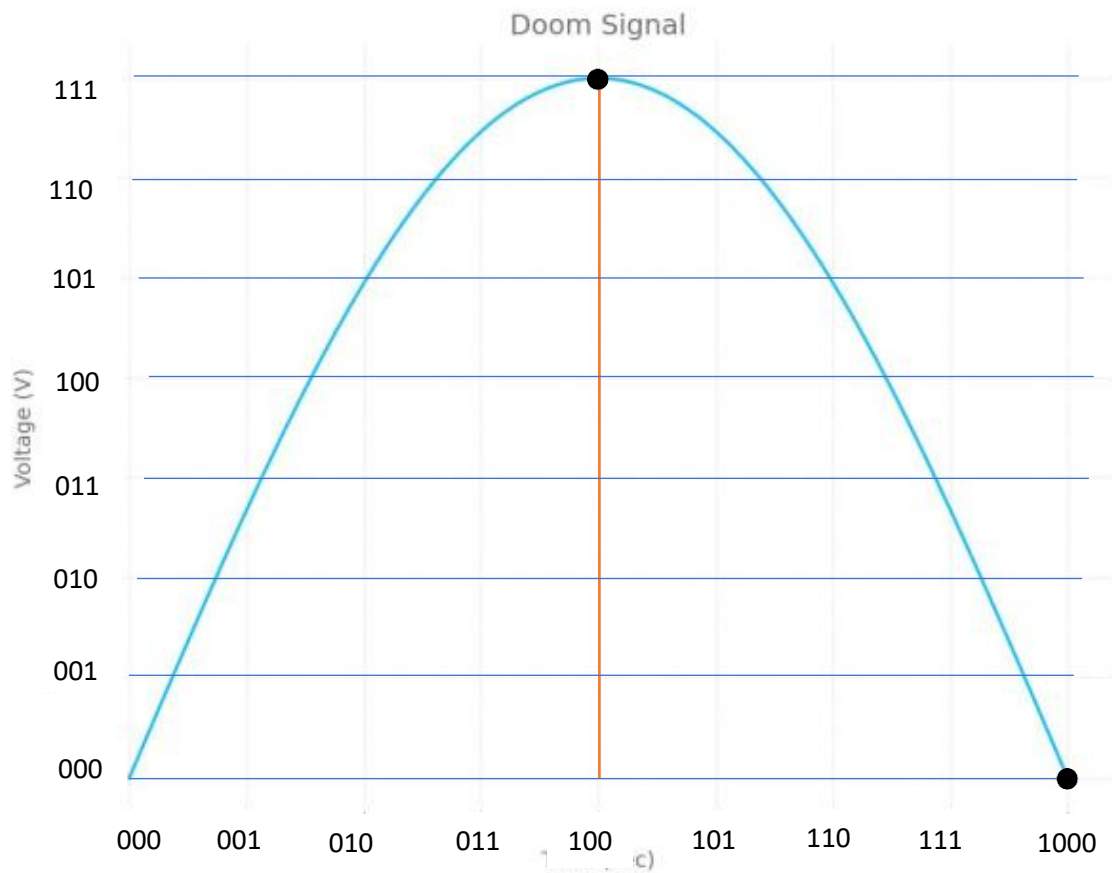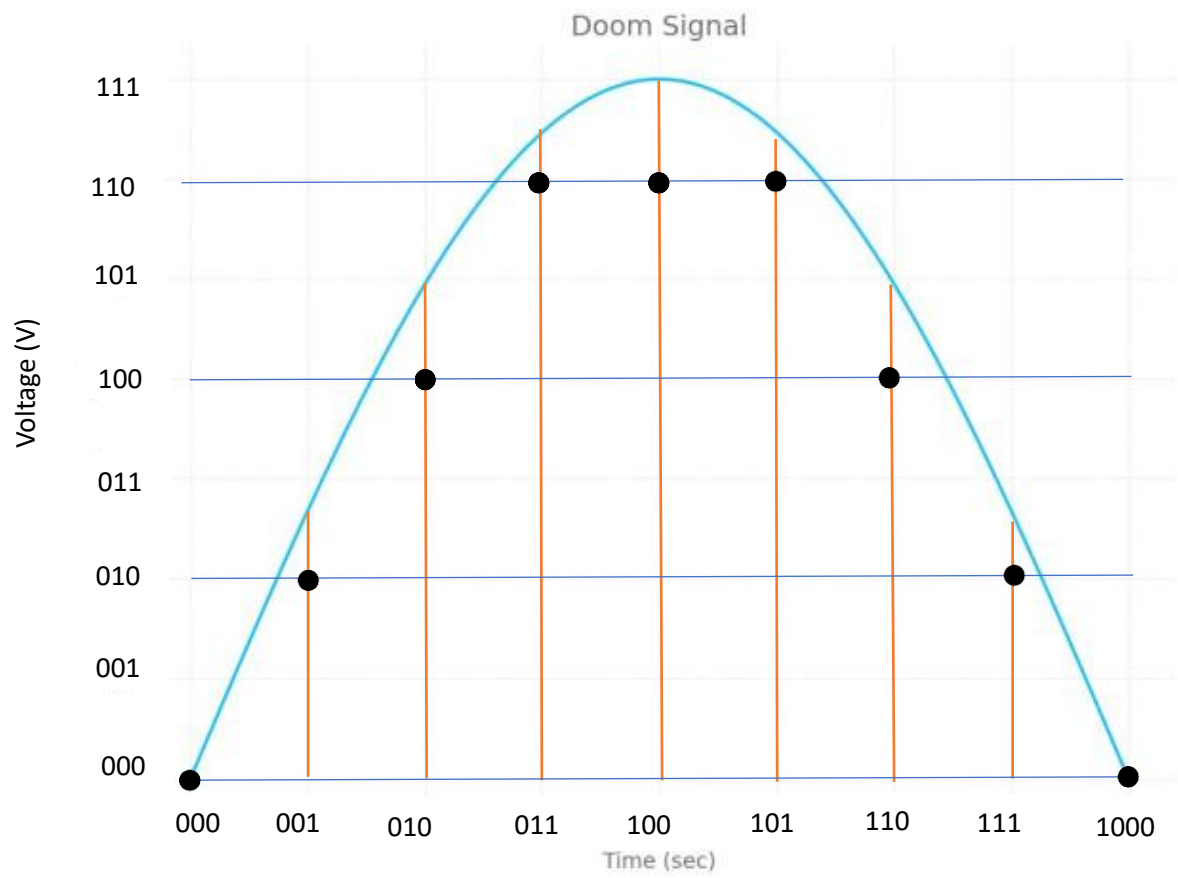## Conclusion:

- More levels and small sampling time is better for data because less levels and big sampling time causes loss a lot of data of the signal.
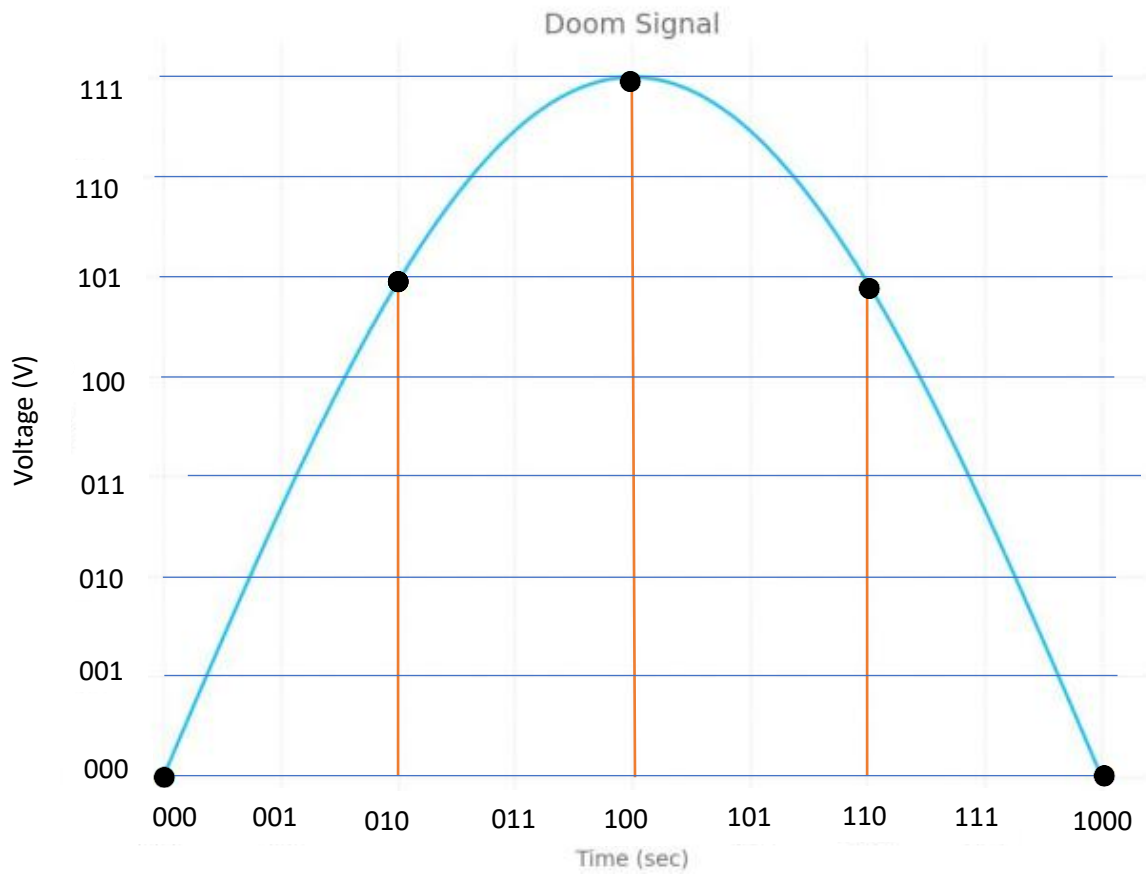
3-bit encoder with Sampling Time = 1sec

Doom Signal

2-bit encoder with Sampling Time = 0.25sec

Doom Signal

3-bit encoder with Sampling Time = 0.5sec

Doom Signal

Voltage (V)

111
110
101
100
011
010
001
000

000   001   010   011   100   101   110   111   1000

Time (sec)

3-bit encoder with Sampling Time = 0.25sec

Doom Signal

Voltage (V)

111
110
101
100
011
010
001
000

000   001   010   011   100   101   110   111   1000

Time (sec)