Voltage - Analogue - Matural - Contineous - / Mm Analogue ADC Digital –
Digitise - Discrete - 0100100100 Convalle

Sound -> MIC -> Correct

To conside sound convesion, we

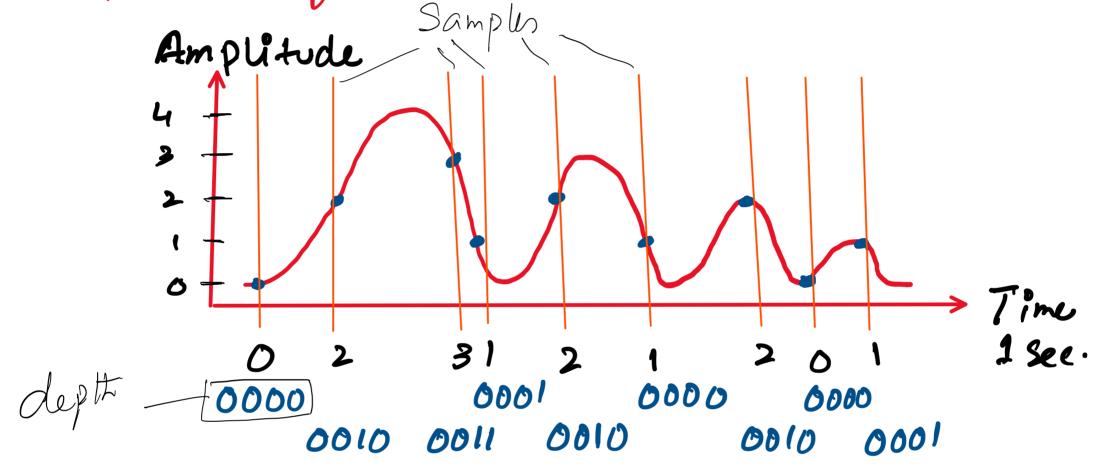
Here to take two things into account.

1. Speed of Computer (Samples per second)

2. Data captured in 1 unit of time. (Depth)

- CD was invented I manufactured Pn 1981 by Sony Corp.

- In 1981 max. speed of computer was 44100 hz. (44khz)
- In 1981 max. amount of data, that can be captured
by the computer was 16bits (2 Bytes) -> word stee.



9 Samples x 4bits = 36bits = 5Bytes.

- Digital gound is broken down into number 7

Samples per second.
- Each sound sample is saved as binarry data.

Sample rate: Number of captured samples per second. Somple: Single recording of sound amplitude. Depth/bit depth: Number of bits saved per sample. (Resolution)

Sound File Sizing:

Sound tile Gize = Sample rate x bit depth a Time Surples Kesowtion In recorded Seconds. 07 dept per sec.

Brample:

Somple voite: 1000 Resolution: 1651ts. Duration: 1 minute

Sound tile Size = 1000 x 16b x 60 = 960,000 bits = 120,000 Bytes. 2B x 60 = 120,000 Bytes. 1000 x