

D Signal : \rightarrow Function of 1, 2 or 3
or 'n' independent variable(s)
And it carries information ~~with~~
~~seq~~ The information is 'hidden'
in sequence of samples of signal.

Goal : To extract this information.

Example : 1) Sinusoidal signal.

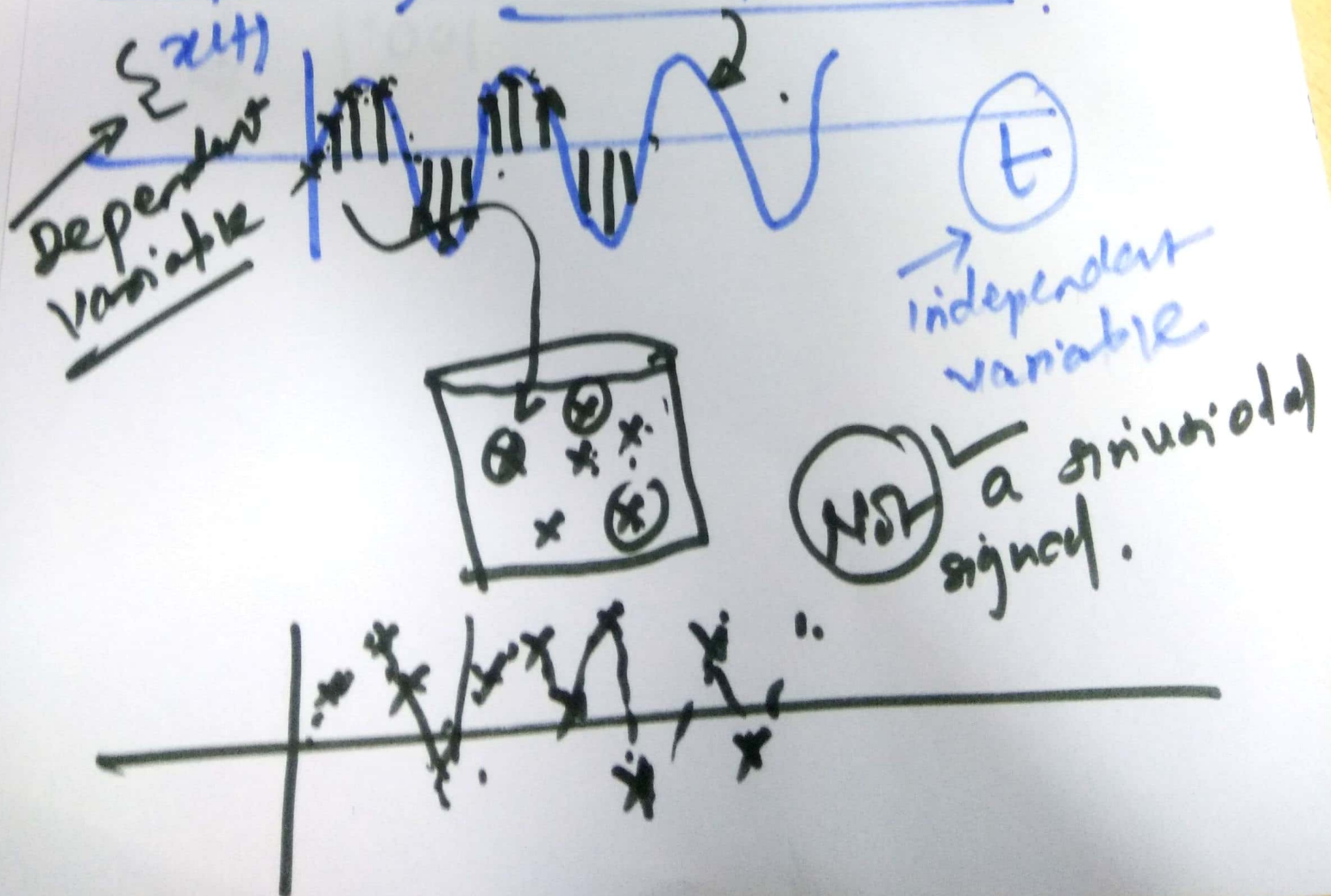
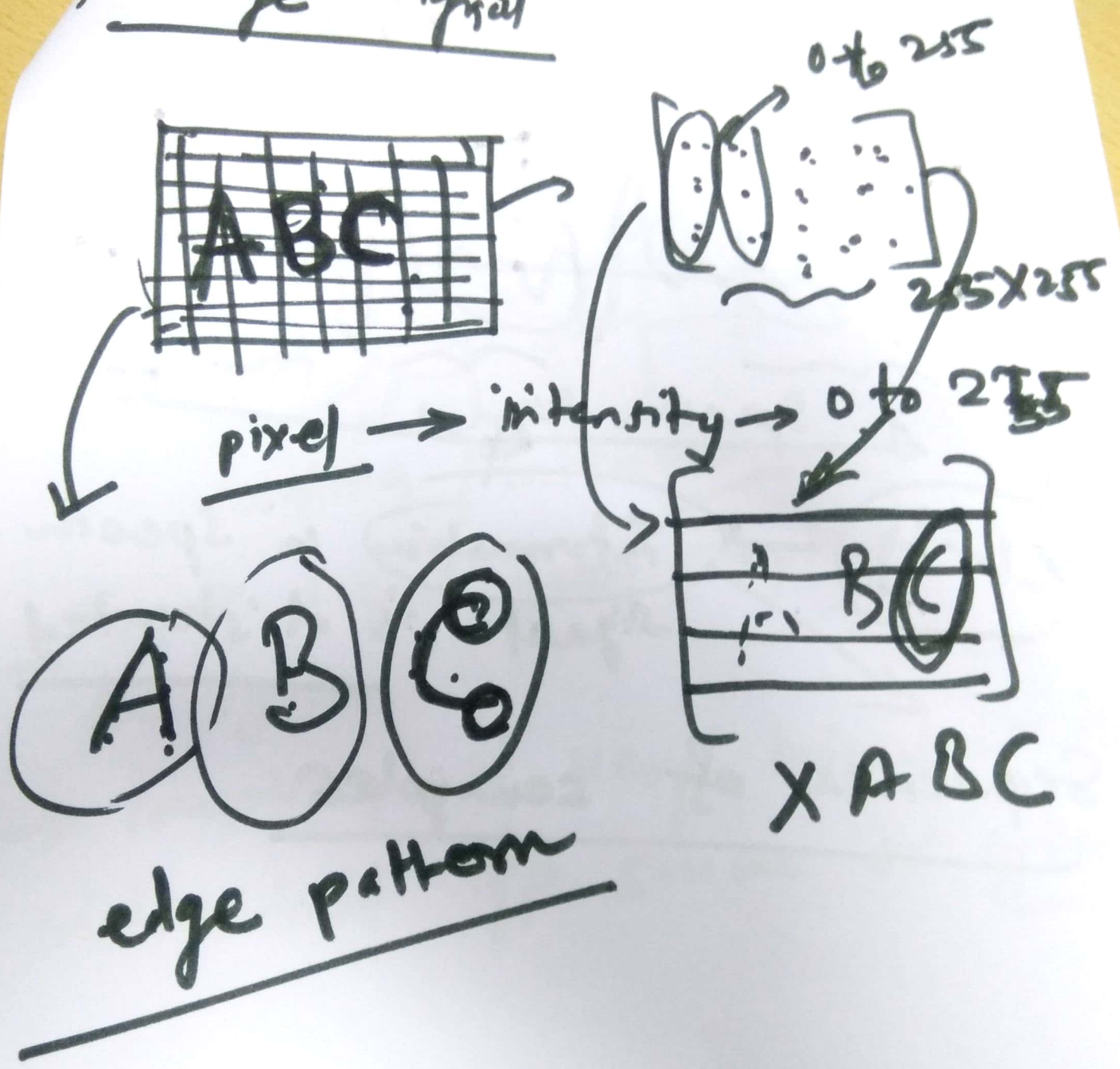
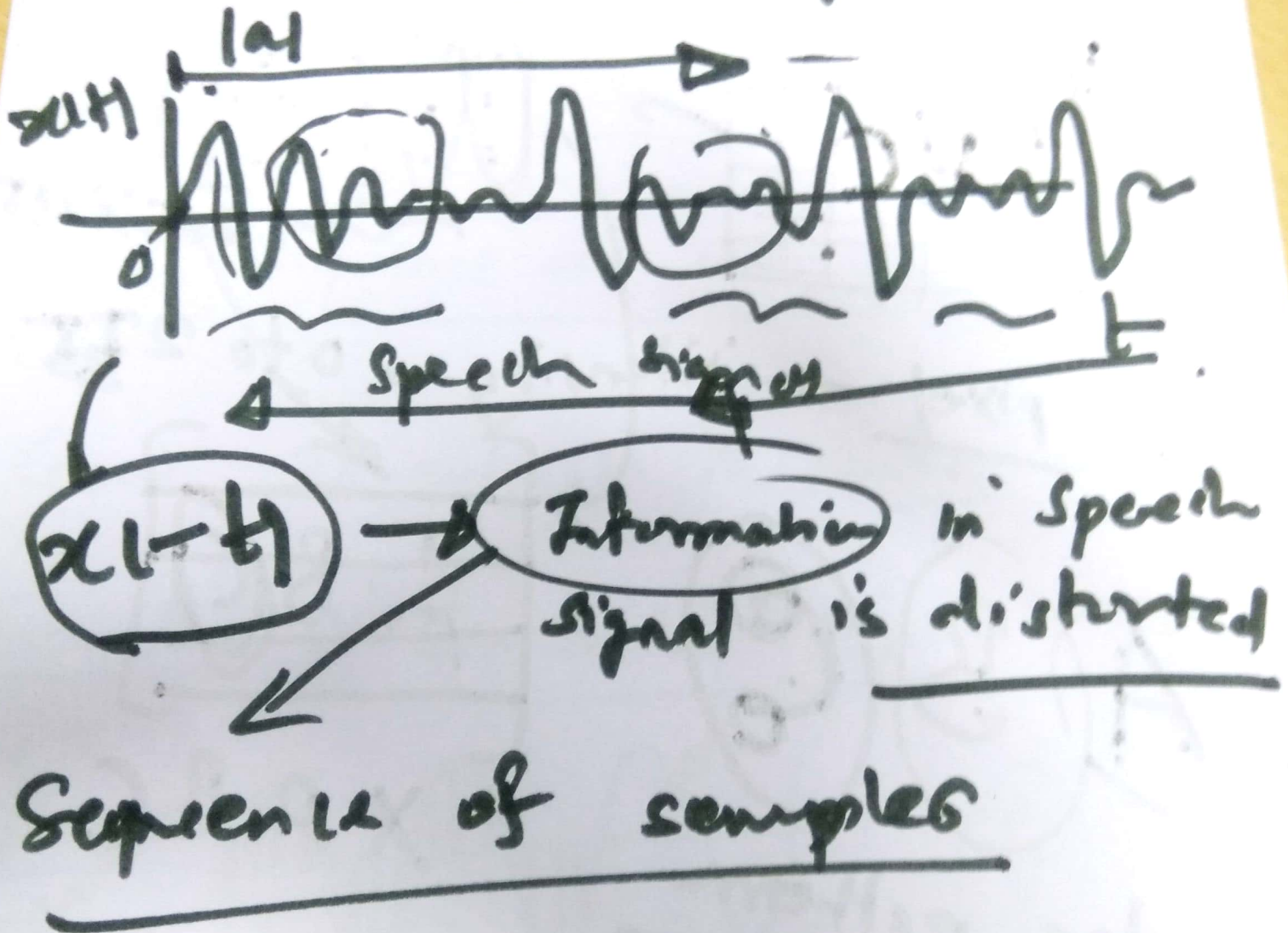


Image Signal

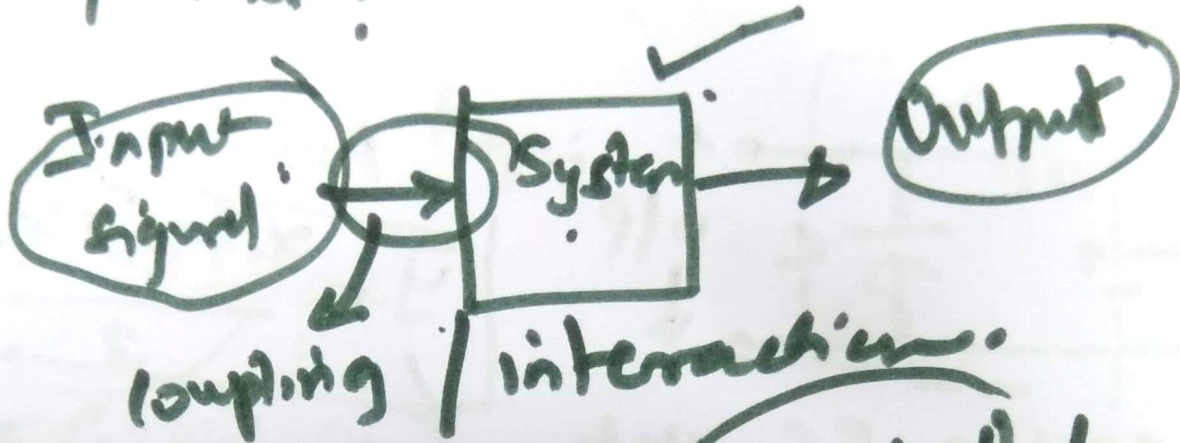


3) Human Speech Signal



In Signals and Systems

Whether signal or system is important?

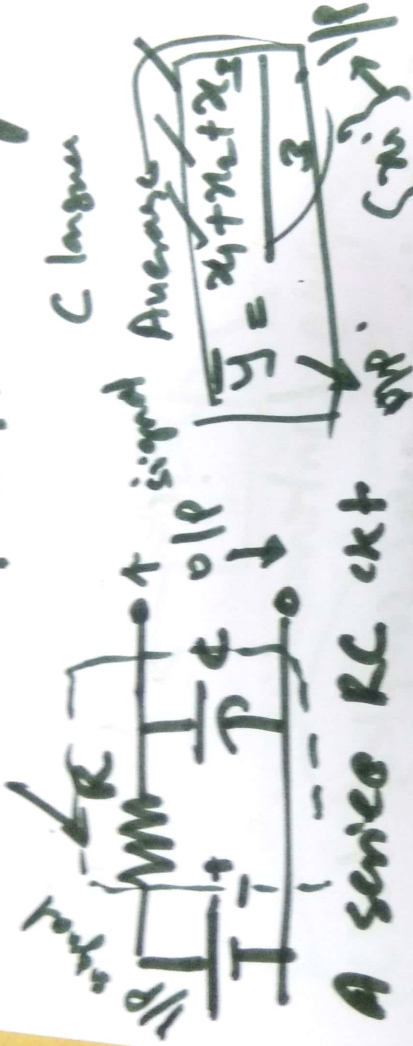


→ Input signal gets coupled to the system

→ coupling is very important than individual ifp source or system

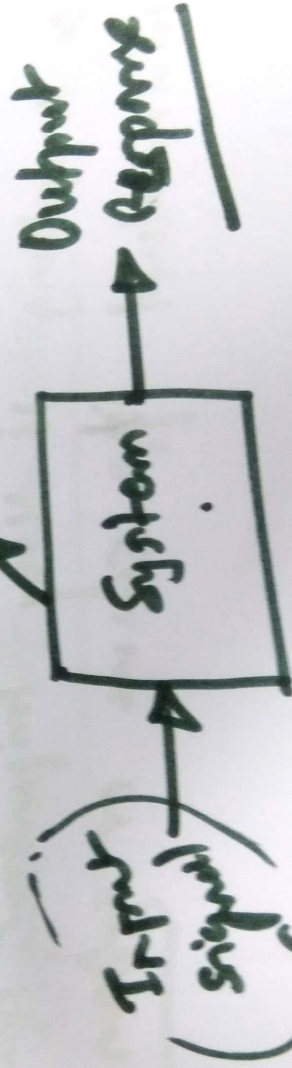
What is a system?

Hardware + Software System



A series RC ckt

Characteristics



Input via
External
Source.

Examples of Signals

Nishant
Vyas

- 1) Sinusoidal Signal
- 2) Speech Signal
- 3) Audio
- 4) Image
- 5) Video
- 6) Seismic
- 7) Music
- 8) ECG, EEG
- 9) Internet any digital