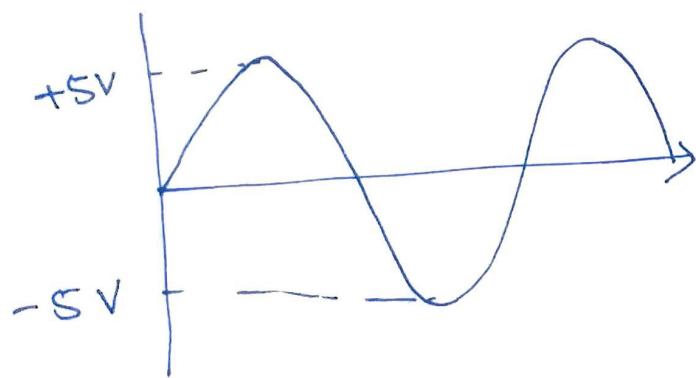


## Analog System

\* Continuous System is used to denote the information.

Analog Signals is defined as any physical quantity which varies continuously w.r.t time.

Ex:- amplifier, ecg, watch, radio etc.  
(tuning radio)

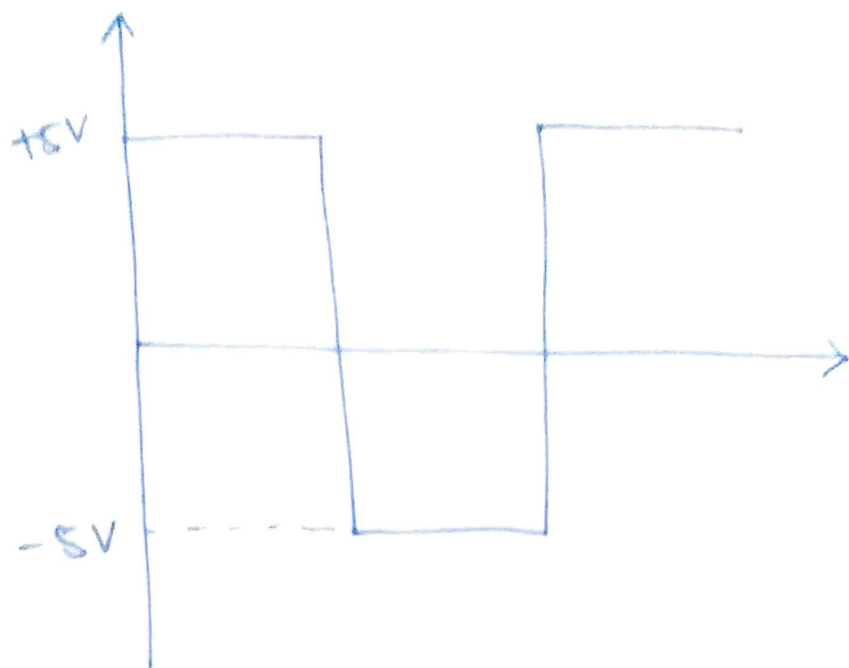


## Digital System

\* information is denoted by a finite sequence of discrete values or digits.

Digital Signals is defined as any physical quantity having discrete values.

Eg:- digital watch, calculator, bpm machine, thermometer etc.



### Advantages of digital System

- Digital System are easy to design because they don't require sound engineering and mathematical knowledge, use only switching ckt.  
Ex:- Assembling of a Computer is easy  
logic Gates are available only need to be connected, rest not a tedious work.
- Storage for longer time & processing is easy (Miniaturization & easy & processing speed is fast)  $2.3\text{GHz} \rightarrow 2300000000\text{Hz}$
- Better Accuracy & precision  
Increase bits Accuracy increases
- less effected by noise like sound, electric field, magnetic field  
(As deals with bits)

↳ Better modularity and easy fabrication its size is very small.

↳ less cost