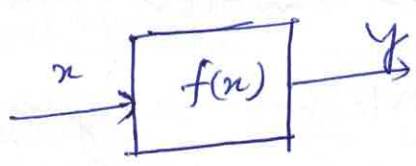


Hierarchy of Computer System:-

Computer System Design

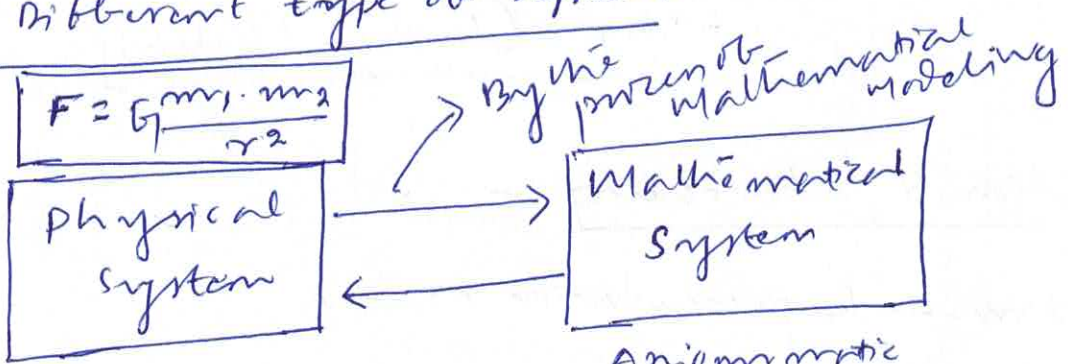
Design:- Designing a modern, general purpose computer system from the bottom to top.

Defining a computer system:-

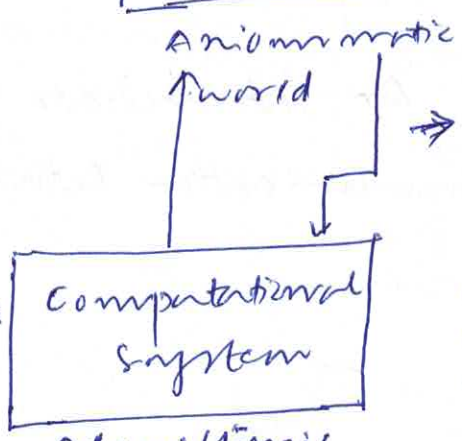


- a computer system is like a input-output system

Three different type of system:-



Natural world



Algorithmic world

By the process of abstraction & representation

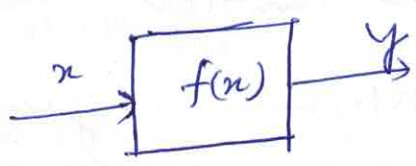
- variable
- Data structure
- Graph

Hierarchy of Computer System:-

Computer System Design

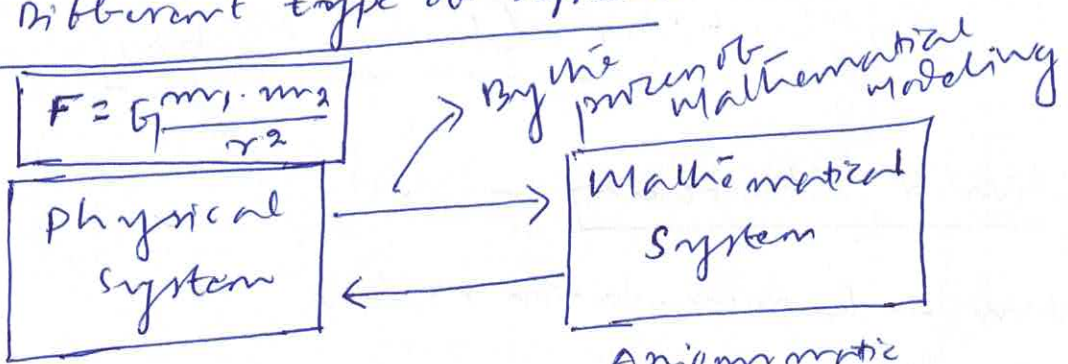
Design:- Designing a modern, general purpose computer system from the bottom to top.

Defining a computer system:-



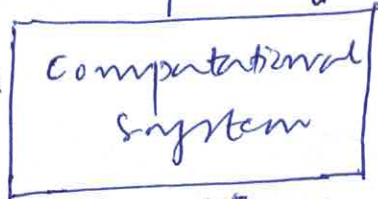
- a computer system is like a input-output system

Three different type of System:-



Natural world

Axiomatic world



Algorithmic world

By the process of abstraction & representation

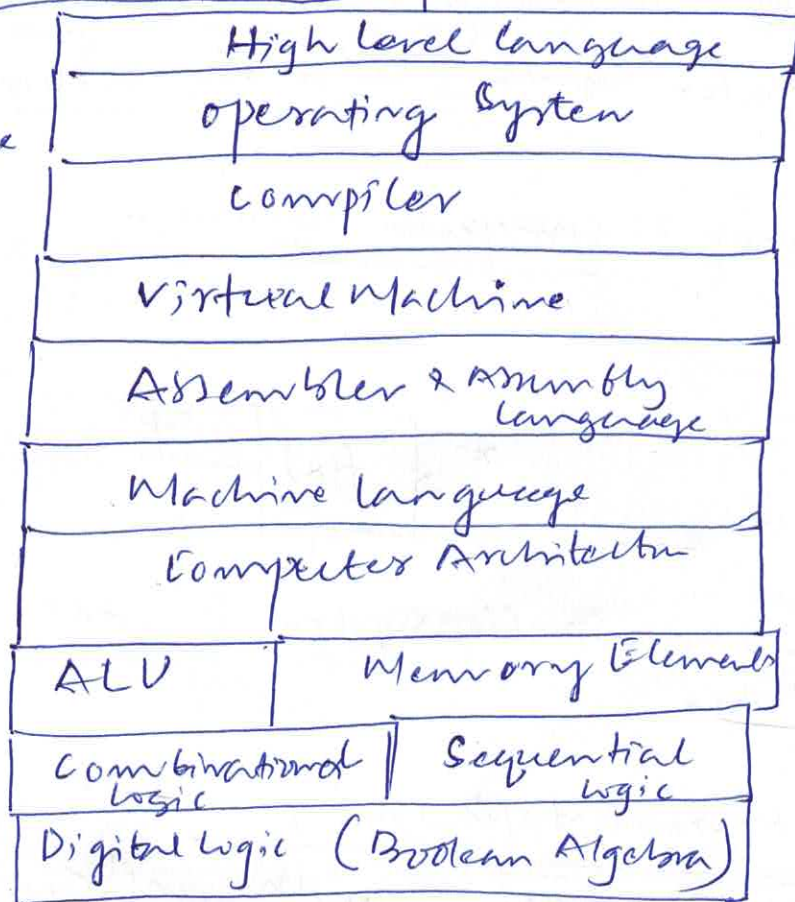
- variable
- Data structure
- Graph

Computer System - A physical view of computational system

System - A set of things working together as parts of a mechanism for an well defined function.

Modern computer system \Rightarrow is a hierarchical system

Human level language

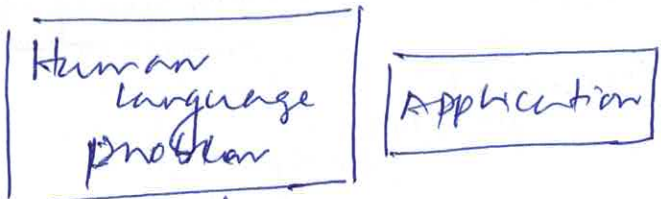


Abstraction & Interfacing :-

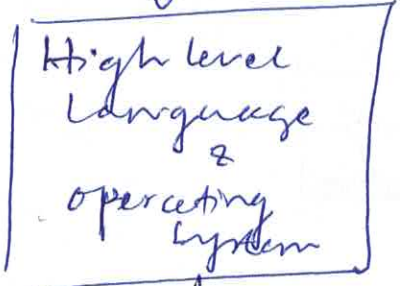
Abstraction - Representation of idea

Interfacing - An intermediate object which enables communication between two objects.

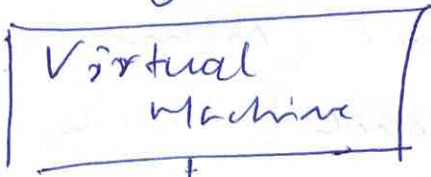
Top-to-Bottom
View



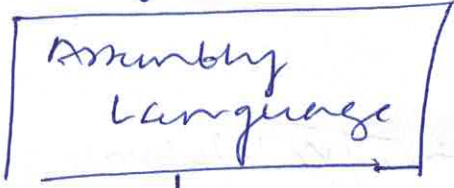
Application
or
System Designer



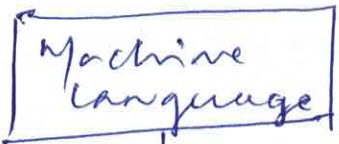
Compiler



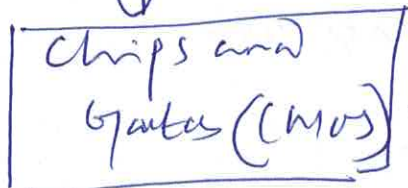
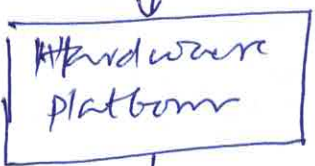
VM Translator



Assembler



Computer Architecture

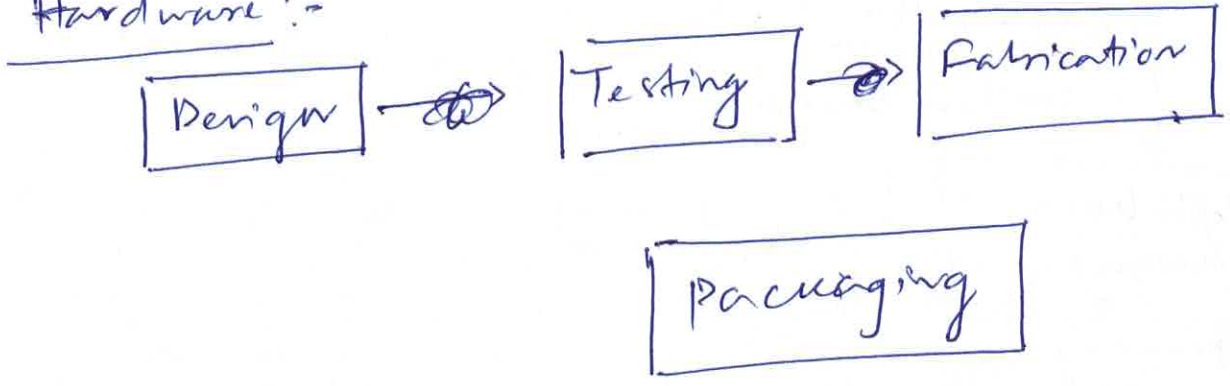


Design approach

Bottom-to-top

Design Methodology - (General purpose computer)

Hardware :-



Design :-

Design specification

