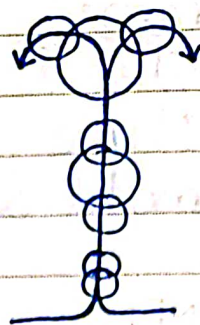# Object Oriented S/w Engineering

① fountain Model:
- overlap
- arrows
- smaller maintenance circle

⑪ V-Shaped Model:

- Verification: Code is not executed, it is verified by brainstorming.
- Validation : Code is executed to check faults.
- In V shape testing is done after every phase to improve quality of end products of all phases.
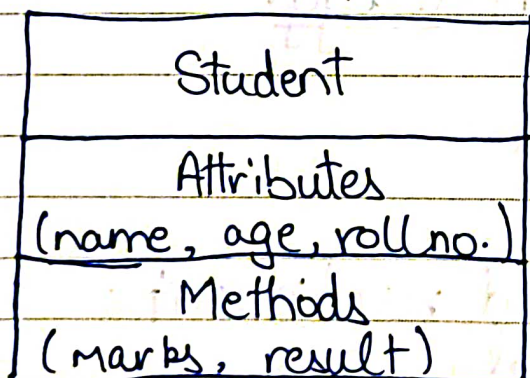
RA - - - - — - - -→ Acceptance

    D - - - - - - - -→ System

Detail D - - - - → Unit

      Implementation

Limitations:
i) More resources & no working version till late time.
ii) No iterations
iii) Can't adapt to change

30/10/2022

    * Class Diagram :

Student
Attributes (name, age, roll no.)
Methods (marks, result)
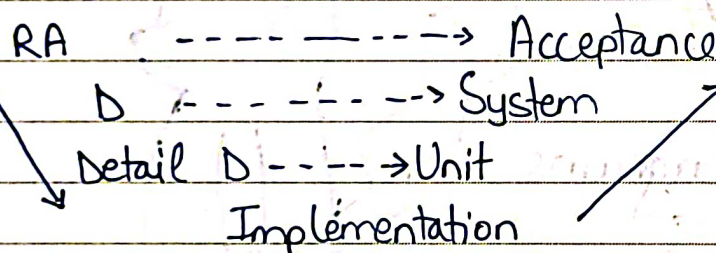
04/11/22

* Object Oriented Methodologies:

→ OMT : Jim Rambaugh
- fast, intuitive approach
- consists Static, Dynamic & Functional Models.

4 Phases: Analysis, System Design, Object Design, Implementation.

Date:

* **Class Diagram:**
  - Attributes & Methods
  - Class Name
  - Object model & Data dictionary.

① OBJECT MODEL
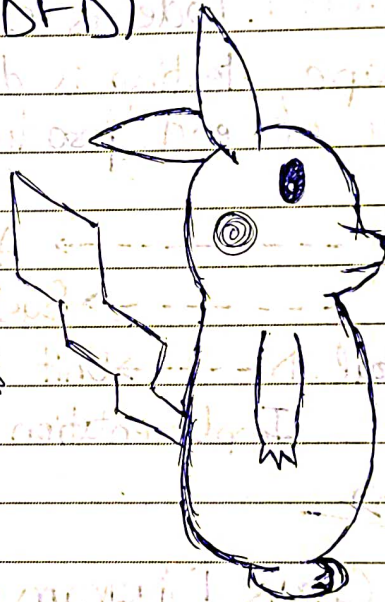
#imp Central method

⑪ * **DYNAMIC MODEL:**
  - State transitions
  - Event flow diagrams

⑫ * **Functional MODEL:**
  - Data Flow diag. (DFD)
  - Constraints.

▷ **Booch Methodology:**
  - Class Diagrams
  - Object Diagrams
  - State Transit^n Diagrams
  - Module Diagrams
  - Process Diagrams
  - Interaction Diagrams

▷ I **Jacobson ET. AL. Methodology:**
  - Use Case
    ↳ Diagram
    ↳ Description
    ↳ include & extend relationships.
  - Domain Object Model
  - Analysis Object Model
  - Implementation
  - Test Model
    ↳ Test plans
    ↳ Strategies