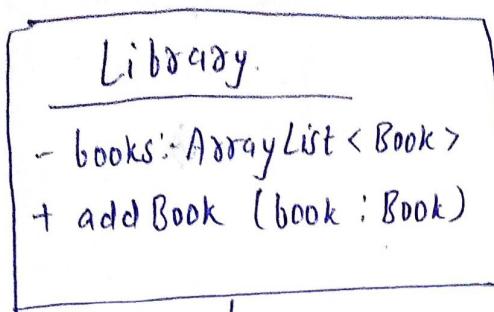
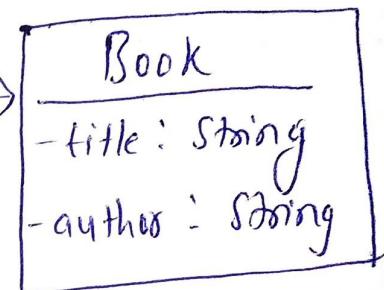
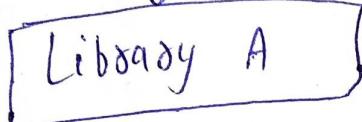
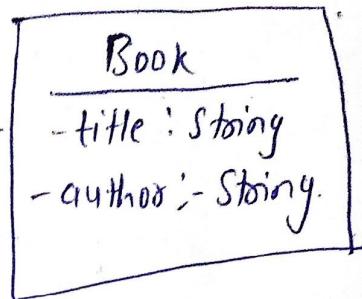


## Object Modeling

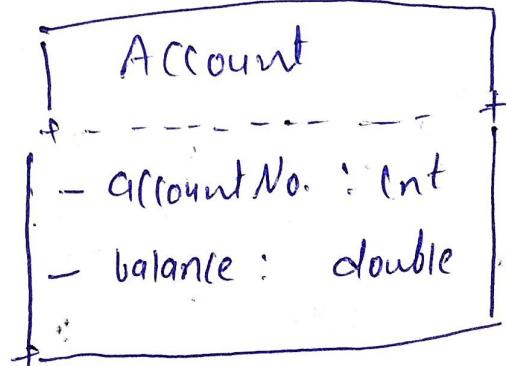
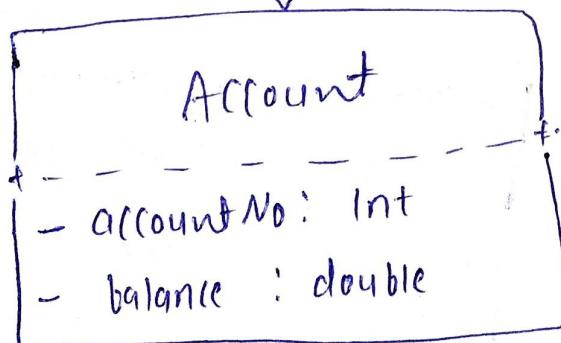
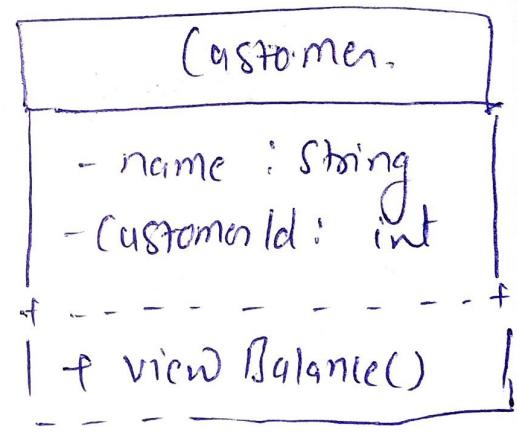
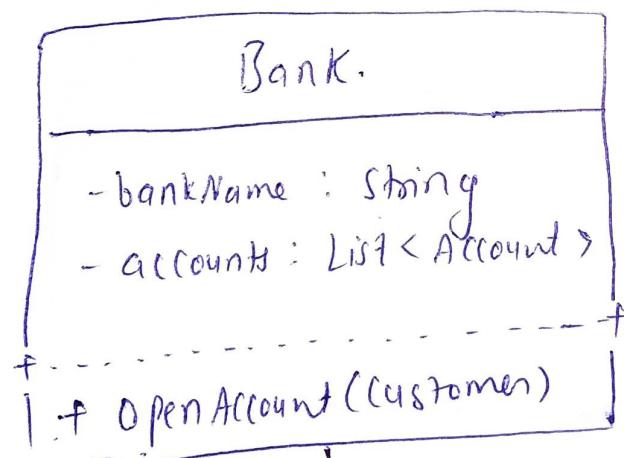
Problem1:- Library and Books (Aggregation)



Aggregates

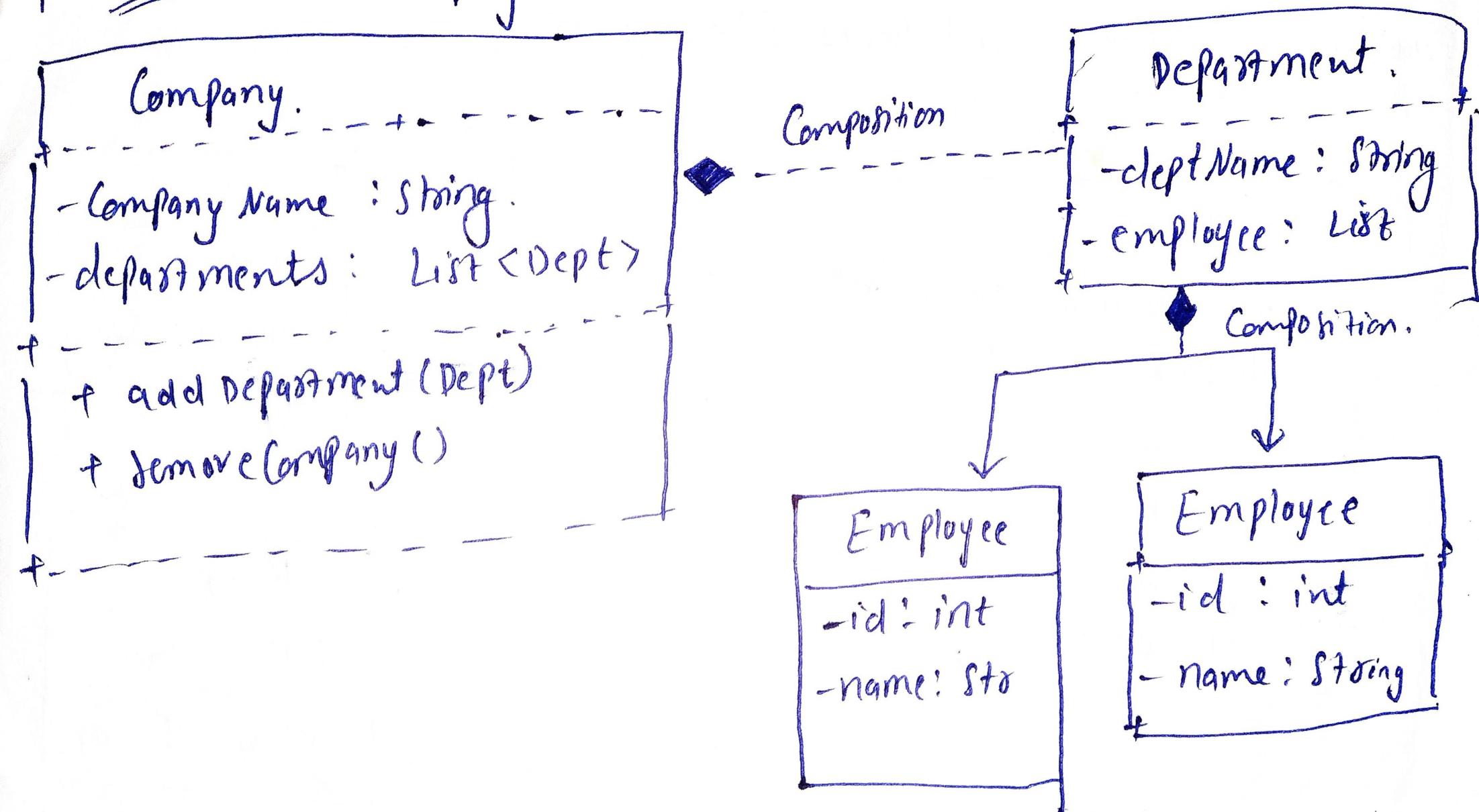


Problem2:- Bank and Account Holders (Association)

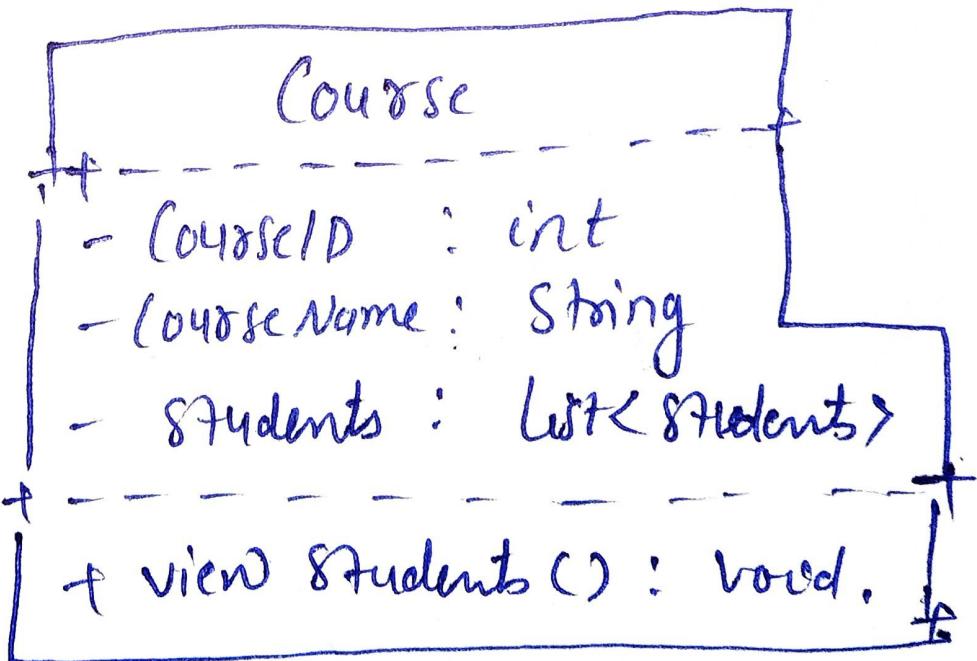
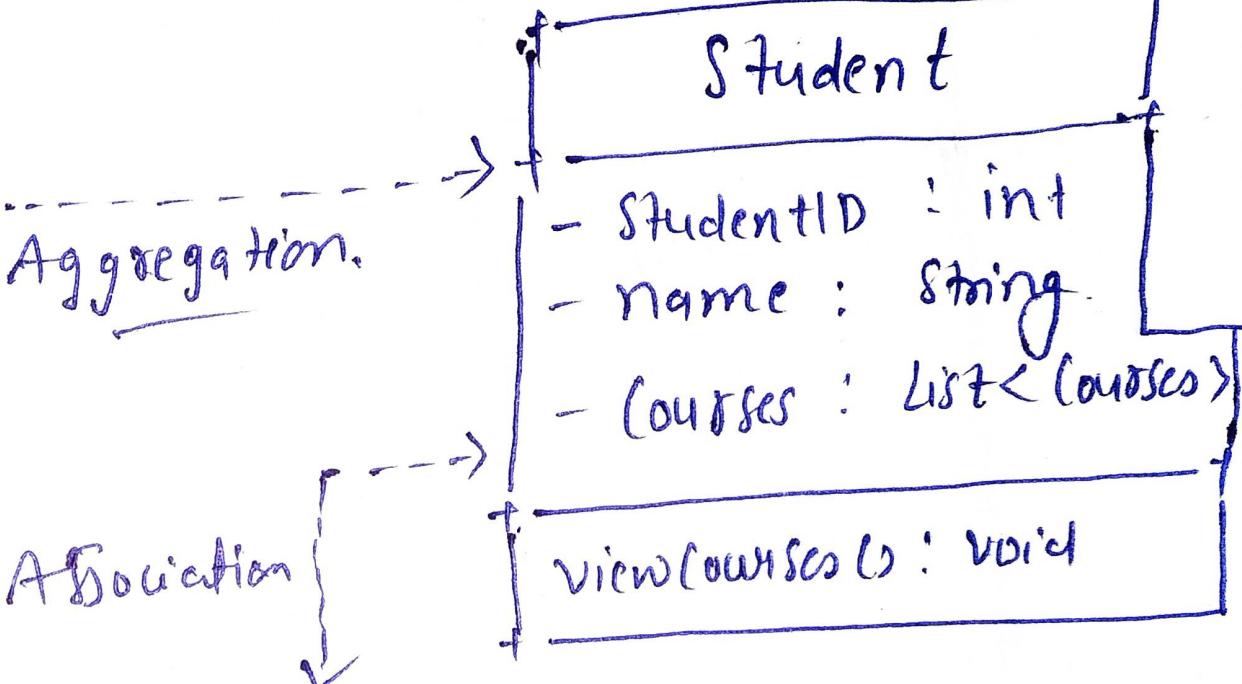
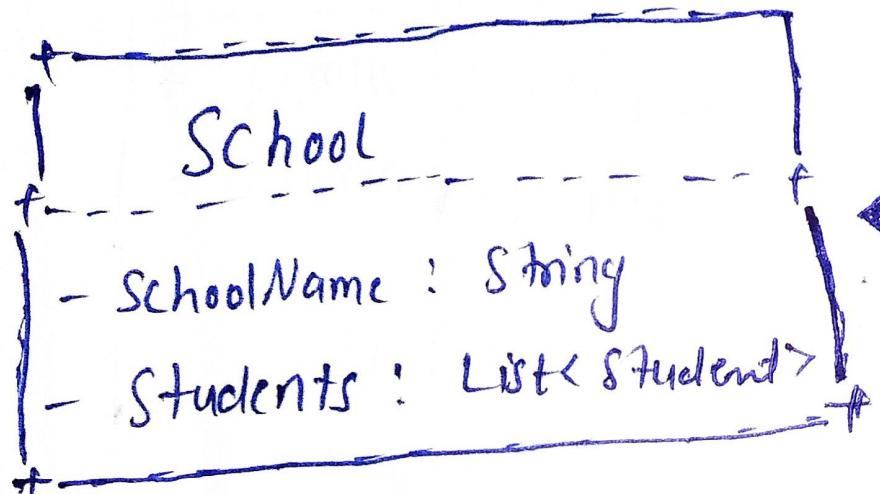


Problem 3:-

## Company and Departments (Composition).



# ① School - Students - Courses (Association and Aggregation)



②

## University - Department - faculty (Composition and Aggregation)

### University

- UniName : String
- departments : List <Department>
- faculty : List <faculty>

- + addDepartment () : void
- + deleteUniversity () : void

Composition  
↓

### Department

- deptID : int
- deptName : String
- faculty : List <faculty>

- + addFaculty () : void

Aggregation  
→

### faculty

- facultyID
- name
- subject

- + teach()

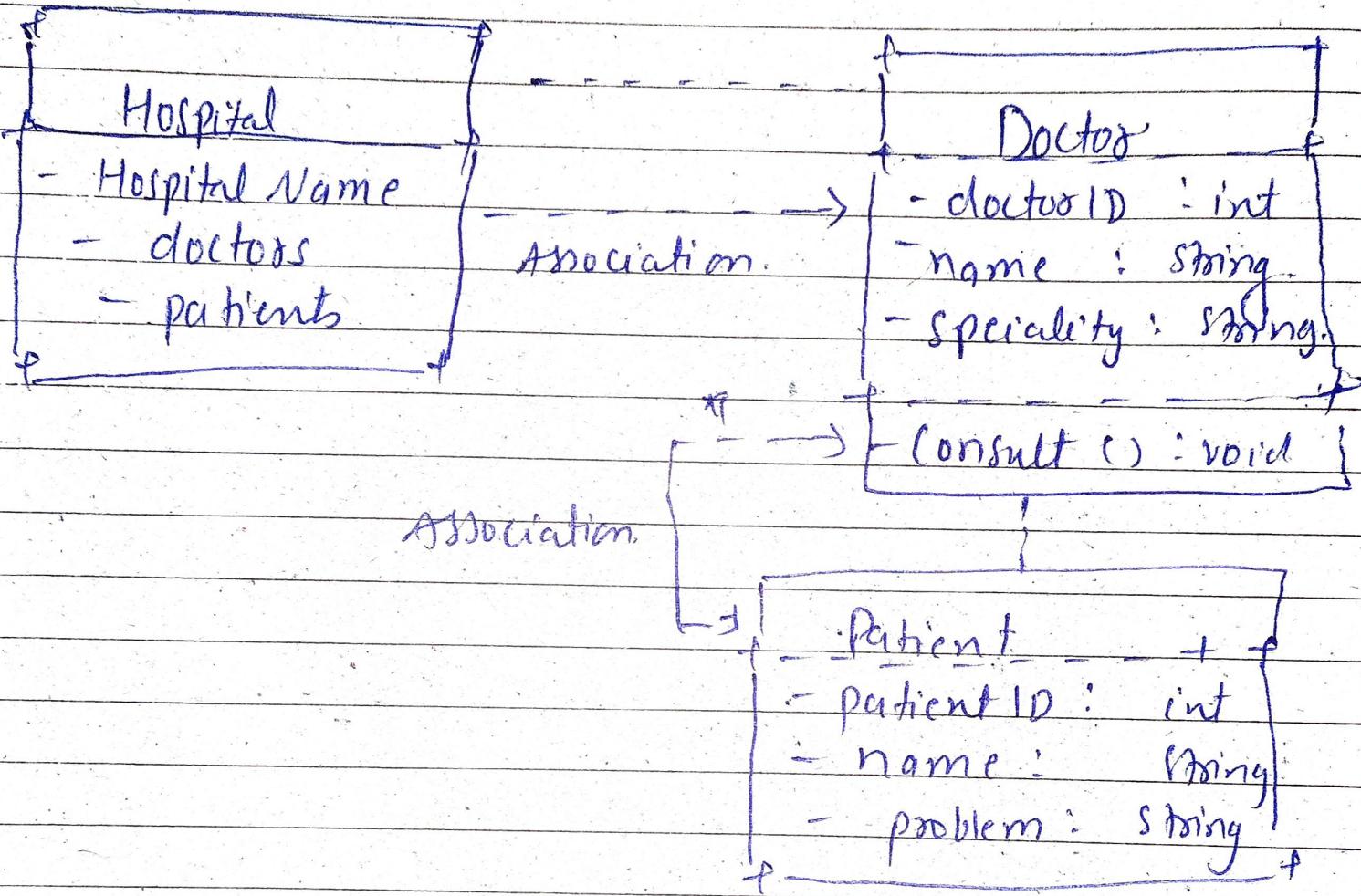
③

Page : / /  
 Date : / /

Hospital - Doctors - Patients

(Association and Communication)

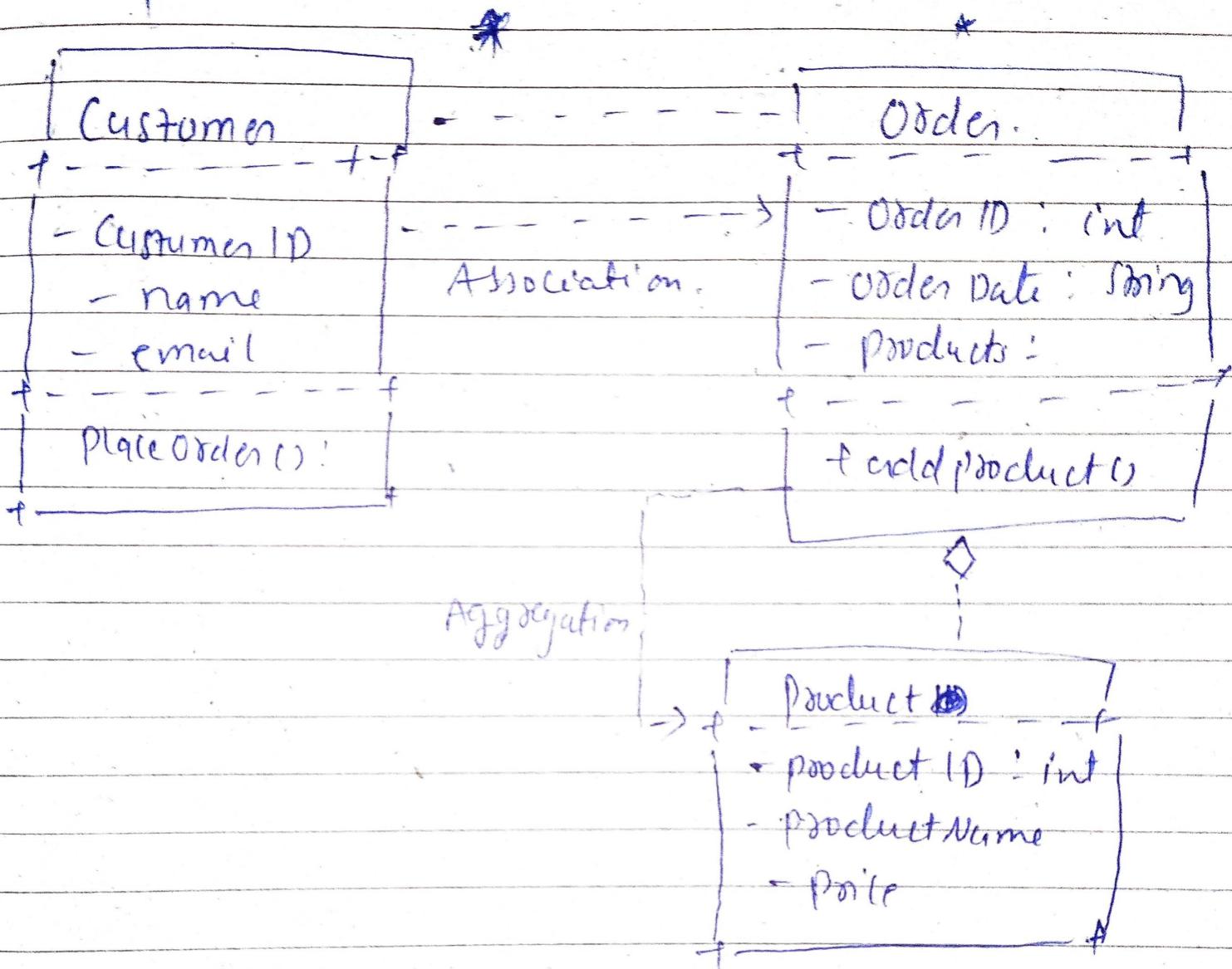
1 → \*



④

## E-Commerce Platform

Page: / /  
Date: / /



Problem St.

# University Management System.

Page :

Date :

**Student**

- Student ID : int

- Name : String

Courses :-

- EnrollCourses() : void

Aggregation

**Course**

- Course ID : int

Course Name :

Students

- assignProfessor() : void

Aggregation

**Professor**

- Professor ID

- name

- Subject

- TechCourses :