

Problem 3: Company & Departments (composition) Class Diagram (1) 1100 brown Shreya Goyal Class Diagrom Company departments: List 4 Department >1 tadd Department (dep: Department): void 1 t remove Department (dep: Department): void 1 Problem 2: Some and Account Hole 1-employees list & Employee > 1 Haddemplayee (emp: Employee): void 1 1 + remove Employee (emp: Employee): void! 1-name: String 1 1-position & string1

Self-100blems & Students With Courses (Association Problem 1: School propand Aggregation) Shreya Goyal Class Dragram School - Students: LEST < Student > 1 1 + remove Student (Student: Student): void! ptoloso I taddstudent (student: Student); void - Totov: (glass); policy of Josephy : Tocalty): Voit 1-[Composition student 1 -name: String 1 |-id: String |-courses: List < Coulse>| 1 tenroll (course: (ourse): void! 1 + vien Courses (): List < course > 1000 -> Association (many-to-many) !- students: List < Student > 1 1+addStudent (student: Student): void 1 1+view Students (): List < Student>1

& Departments Problem 2 8 University with Faculties (composition and Aggregation) Shreya Goyal Class Diagram SCHOOL University 1 List < Department >1 1242> +81; 24 miles -1-faculty: List < faculty = 1 I tadd Department (dept : Department) : word I war ; □ Composition Student Department 1-title: String 1 < the established

Erapldory - Fla

Kroblem 3: Hospital, Doctors, and Patients. (Association Communication) Shreya Cayal Hospital -name: String 1-doctors: List & Doctor>1 1-patients: List < Patient> + + add Doctor (doc: Doctor): void l'faddlatient (pat: latient): void | 1 - patients: List < latient> 1+ Consult (patient: Patient) 2> Association (many Patient 1-age ° int 1 - d'octors. List C Doctor>

- Commerce Platform with Orders 1 Customers and Products Shreya Goyal (201) J.047 12011 Customer 1+placeOrder Corder Order 1-product: List < Product> 1 + add Product (product : Product): void ! I + get Total () : floation. product |-product ID: Storg| |-name: storg| |-price: flout

Knoblem 5: Univoisity Management System Shreya Goyal J-36 Class Diagram Student 1 1-Student ID: String. |-name: string | |-coulses: list < course>1 +---+ (course: (ourse): void | 1 + view (aulse (): List < course> 1 course 1 1-course ID: string]
1-title: String
1-professor: professor]
1-professor: professor 1-Students: List < Student>1 Aggregation 1 Profesor 1 1-profesor ID: String 1 1-profesor ID: String 1 1-name: String 1 1-courses : List < Courses 1 1 + assign (ausse (course : (ourse): void) 1+ view Course (): List < Course > 1