

Day-5 Assignment Questions:

1. Design a Java program to maintain hospital medical records.

Create a base class named MedicalRecord that includes common attributes:

- recordId, patientName, dateOfVisit, and diagnosis.
- inputRecordDetails() – to input common record information.
- override displayRecord() – to display the common record details.

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Create a subclass InPatientRecord that extends MedicalRecord and adds:

- roomNumber, numberOfDaysAdmitted, roomCharges.
- calculateTotalCharges() – to compute and return total inpatient cost.
- displayRecord() – to include all details, including total charges.

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Create another subclass OutPatientRecord that extends MedicalRecord and adds:

- doctorName, consultationFee.
- override displayRecord() – to include all outpatient-specific details.

Include all the necessary classes if its needed.

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2. Can we override private method, constructor, static method, final method? Illustrate with an example.

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3. Create a Java application to manage employees in a company. Define a base class Employee with a method calculateSalary(). Then create two subclasses FullTimeEmployee and PartTimeEmployee that override calculateSalary() method based on their working type.

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4. Design a Java Ticket Booking System using polymorphism where Bus, Train, and Flight tickets share a common method but implement booking differently.