

Lab 5

1. University Course Management System Description:

You are tasked with developing a simple University Course Management System in Java. The system should be able to represent a university course with information such as course code, course name, instructors, maximum number of students, enrolled students, and assessments.

Requirements:

Class Structure:

- Create a **Java class** named **UniversityCourse** with the following **private attributes**:
 - `courseCode` (String).
 - `courseName` (String) .
 - `instructors` (String array).
 - `maxStudents` (int).
 - `enrolledStudents` (String array).
 - `assessments` (String array) .
- **Constructors**:
 - Implement a **default constructor** that initializes **default** values for the course.
 - Implement a **constructor** that takes **courseCode** and **courseName** as parameters and sets them.
 - Implement a constructor that takes **courseCode**, **courseName**, **instructors**, and **maxStudents** as parameters.
 - Implement a full constructor that includes all attributes: **courseCode**, **courseName**, **instructors**, **maxStudents**, and **assessments**.

- **Methods:**

- Enrolling Students: Implement a method **enrollStudent** that takes a `studentName` as a parameter and enrolls the student in the course.
 - **Ensure that the course does not exceed the maximum number of students.**
- **Displaying Information:** Implement a method **displayCourseInfo** that displays information about the course, including course code, course name, instructors, maximum students, enrolled students, and assessments.
- **Additional Method:** Add a method named `displayEnrolledStudents` that displays the list of enrolled students in a formatted manner.
- **In the main method,** demonstrate the functionality of your class by creating instances using different constructors, enrolling students, and displaying course information.