

OOP - Final Assessment - Section B

Course Management System

It is a software system that keeps track of Courses, Students, Enrolment of students into courses and calculation of CGPA

- **Course Class**

- Represents a Course in the system
- Constructor with Course Name and Credit Points as argument

- **Student Class**

- Represents a Student in the system
- Constructor with Student Name

- **Enrollment Class**

- Represents a student enrolled in one course and the grade points they obtained in the course

- **CourseManagementSystem Class**

- Constructor with the program name as the parameter
 - Method addCourse; it takes a Course object as argument
 - Method addStudent; it takes a Student object as argument
 - Method enroll; it takes a Student object and Course object as arguments
 - Method awardGrade; Student object, Course object and credit points as arguments
 - Method computeGPA; calculates GPA for all the students enrolled in all courses
 - Method generateTranscript; Generates the transcript and returns it as a String
- GPA is calculated as *Sum of all (Grade Points * Credit Points)/Sum of (Credit Points)*