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Question 1 [C02] [10 Points]

Design the **CourseManager** class with appropriate instance variables and methods to generate the expected output.

Tester Code	Expected Output
<pre> public class CourseTester { public static void main(String[] args) { CourseManager course1 = new CourseManager(); course1.setCourseInfo("CSE201", "Data Structures"); System.out.println("1-----"); course1.showCourseDetails(); System.out.println("2-----"); course1.registerStudent("Alice", 1001, 1500); System.out.println("3-----"); course1.showCourseDetails(); System.out.println("4-----"); course1.registerStudent("Bob", 1002, 1600, "Charlie", 1003, 1400); System.out.println("5-----"); course1.showCourseDetails(); System.out.println("6-----"); course1.registerStudent("Diana", 1004, 1700); course1.registerStudent("Ethan", 1005, 1800); System.out.println("7-----"); course1.showCourseDetails(); } } </pre>	<pre> 1----- Course Code: CSE201 Course Title: Data Structures Total Registered Students: 0 Registered Students: Total Collected Fees: 0 Taka 2----- Student Alice (ID: 1001) registered successfully. 3----- Course Code: CSE201 Course Title: Data Structures Total Registered Students: 1 Registered Students: Name: Alice, ID: 1001, Fee: 1500 Taka Total Collected Fees: 1500 Taka 4----- Student Bob (ID: 1002) registered successfully. Student Charlie (ID: 1003) registered successfully. 5----- Course Code: CSE201 Course Title: Data Structures Total Registered Students: 3 Registered Students: Name: Alice, ID: 1001, Fee: 1500 Taka Name: Bob, ID: 1002, Fee: 1600 Taka Name: Charlie, ID: 1003, Fee: 1400 Taka Total Collected Fees: 4500 Taka 6----- Student Diana (ID: 1004) registered successfully. Registration full for this course. 7----- Course Code: CSE201 Course Title: Data Structures Total Registered Students: 4 Registered Students: Name: Alice, ID: 1001, Fee: 1500 Taka Name: Bob, ID: 1002, Fee: 1600 Taka Name: Charlie, ID: 1003, Fee: 1400 Taka Name: Diana, ID: 1004, Fee: 1700 Taka Total Collected Fees: 6200 Taka </pre>