

```
package classes;

public class Course {

    public Course(String course_name) {

        this.course_name = course_name;
        this.number_of_students = 0;
    }

    public void display() {

        System.out.println("Display course data: ");
        System.out.println("- Course Name: " + this.course_name);
        System.out.println("- Number of students: " + this.number_of_students);
        System.out.print("- Students: ");

        if (this.students != null) {

            System.out.print("\n");
            for (String student : this.students) System.out.println("\t- " + student);

        } else System.out.println("-");
    }

    public void addStudent(String student_name) {

        if (this.students == null) {

            this.students = new String[1];
            this.students[0] = student_name;
            this.number_of_students = 1;
            return;
        }

        String[] old_students = this.students;
        this.students = new String[++this.number_of_students];

        System.arraycopy(old_students, 0, this.students, 0, old_students.length);
        this.students[this.students.length - 1] = student_name;
    }

    public void dropStudent(String student_name) {

        if (this.students == null) return;

        int delete_index = -1;
        for (int i = 0; i < this.students.length; i++)
            if (this.students[i].equals(student_name)) delete_index = i;

        if (delete_index == -1) return;

        while (delete_index != this.students.length - 1) {

            this.students[delete_index] = this.students[delete_index + 1];
            delete_index++;
        }
        this.number_of_students--;

        if (this.number_of_students == 0) {
            this.students = null;
            return;
        }

        String[] new_student = new String[this.number_of_students];

        System.arraycopy(this.students, 0, new_student, 0, this.number_of_students);
        this.students = new_student;
    }
}
```

```
public void clearStudent() {  
    if (this.students == null) return;  
    this.students = null;  
    this.number_of_students = 0;  
}  
  
private final String course_name;  
private String[] students;  
private int number_of_students;  
  
public String getCourseName() {  
    return this.course_name;  
}  
  
public String[] getStudents() {  
    return this.students;  
}  
  
public int getNumberOfStudents() {  
    return this.number_of_students;  
}  
}
```