Isaac Ray Shoebottom

CS 1073 (FR02A)

Assignment 2

3429069

# Section A:

Output:

course1: CS1073 offered Fall 2020 Students: 0

course2: CS1083 offered Winter 2021 Students: 0

course3: MATH1013 offered Summer 2021 Students: 0

# Section B

Updated Source Code Of Course.java:

/\*\*

This class represents a Course.

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\*/

public class Course{

//Instance variables:

//For each Course object, store its name, semester, year, and the

//number of students enrolled in the course so far.

private final String name;

private final String semester;

private final String instructor;

private final int year;

private int students;

//The constructor creates a new Course object and initializes the

//instance variables.

public Course(String nameIn, String semesterIn, String instructorIn, int yearIn){

this.name = nameIn;

this.semester = semesterIn;

this.instructor = instructorIn;

this.year = yearIn;

this.students = 0; //no students have been added to the course

}

//This is a method that we can call on a Course object

//(Specifically, it is an accessor method). This method

//creates and returns a String containing all the information

//about the state of the object.

public String Output(){ //Maybe don't overwrite the base "toString method???"

return name + " offered " + semester + " " + year + ". Taught By: " + instructor + ". Students: " + students;

}

public void addStudents(int students) {

this.students += students;

}

}

# Section C

Updated source code for CourseDriver.java:

/\*\*

This is an example of a driver class; its purpose

is to try out the Course class.

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\*/

public class CourseDriver{

public static void main(String[] args){

//Create some Course objects

Course course1 = new Course("CS1073", "Fall", "Mr. Don Clement",2020);

Course course2 = new Course("CS1083", "Winter", "Dr. Harvey Ingrid",2021);

Course course3 = new Course("MATH1013", "Summer", "Mrs. Lee Smith" ,2021);

Course course4 = new Course("ENG1104", "Fall", "Ms. Kate Free", 2022);

/\* Add the appropriate statements to record the fact that 23 students have

been added to CS1073, 17 students have been added to CS1083, and 31

students have been added to MATH1013. Then, provide another

statement to record the fact that 14 more students have been added to

CS1073. Position these four statements after the objects are created and

before they are printed out. \*/

course1.addStudents(23);

course2.addStudents(17);

course3.addStudents(31);

course1.addStudents(14);

System.out.println("23 students have been added to CS1073");

System.out.println("17 students have been added to CS1083");

System.out.println("31 students have been added to MATH1013");

System.out.println("14 students have been added to CS1073");

//Now I can print out my courses to confirm they

//were created properly

System.out.println("course1: " + course1.Output());

System.out.println("course2: " + course2.Output());

System.out.println("course3: " + course3.Output());

System.out.println("course4: " + course4.Output());

}

}

Section D  
Sample Output of my edited code:

23 students have been added to CS1073

17 students have been added to CS1083

31 students have been added to MATH1013

14 students have been added to CS1073

course1: CS1073 offered Fall 2020. Taught By: Mr. Don Clement. Students: 37

course2: CS1083 offered Winter 2021. Taught By: Dr. Harvey Ingrid. Students: 17

course3: MATH1013 offered Summer 2021. Taught By: Mrs. Lee Smith. Students: 31

course4: ENG1104 offered Fall 2022. Taught By: Ms. Kate Free. Students: 0