STUDENT MANAGEMENET SYSTEM

STUDENT

```
package studentdatabaseapp;

import java.util.Scanner;

public class Student {

	private String firstName;
	private String lastName;
	private int gradeYear;
	private String studentID;
	private String courses=null;
	private int tuitionBalance=0;
	private static int costOfCourse=600;
	private static int id=1000;

	//Constructor:prompt user to enter students name and
year
	public Student()
	{
		Scanner in=new Scanner(System.in);
		System.out.print("Enter student first name:");
		this.firstName=in.nextLine();

		System.out.print("Enter student last name:");
		this.lastName=in.nextLine();

		System.out.print("1 - Freshmen\n2 - Sophmore\n3 -
Junior\n4 - Senior\nEnter student class level:");
		this.gradeYear=in.nextInt();
		setStudentID();

		System.out.println(firstName+" "+lastName+"
"+gradeYear+" "+studentID);

	}

	//Generate on ID
	private void setStudentID() {
```

```
            //Generate level+ID
            id++;
            this.studentID=gradeYear+ "" +id;
        }

        //Enroll in course
        public void enroll()
        {
            //Get inside a loop,user hits 0
            do {
                System.out.print("Enter course to enroll (Q
to quit)");
                Scanner in=new Scanner(System.in);
                String course=in.nextLine();
                if(!course.equals("Q"))
                {
                    courses=courses+ "\n" +course;

        tuitionBalance=tuitionBalance+costOfCourse;
                }
                else {
                    break;
                }
            } while(1 !=0);

                System.out.println("ENROLLED IN: "+courses);
                System.out.println("TUITION BALANCE:
"+tuitionBalance);
            }


        //View Balance
        public void viewBalance()
        {
            System.out.println("Your balance is:
$"+tuitionBalance);
        }

        //Pay tuition
        public void payTuition()
        {
```

```
            viewBalance();
            System.out.print("Enter your payment: $");
            Scanner in=new Scanner(System.in);
            int payment=in.nextInt();
            tuitionBalance=tuitionBalance+payment;
            System.out.println("Thank you for your payment of
$"+payment);
            viewBalance();
      }

      //Show Status
      public String toString()
      {
            return "Name: "+firstName+" "+lastName+
                        "\nGradeYear: "+gradeYear+
                        "\nStudentID: "+studentID+
                        "\nCourse Enrolled: "+courses+
                        "\nBalance: $"+tuitionBalance;
      }

      }
```

STUDENTDATABASEAPP

```
package studentdatabaseapp;

import java.util.Scanner;

public class StudentDatabaseApp {
 public static void main(String[]args)
 {

       //Ask how many new students we want to add
            System.out.print("Enter number of new students
toenroll");
            Scanner in=new Scanner(System.in);
            int numOfStudents=in.nextInt();
            Student[] students=new Student[numOfStudents];

            //Create a number of new students
```

```
            for(int n=0;n< numOfStudents;n++)
            {
                 students[n]=new Student();
                 students[n].enroll();
                 students[n].payTuition();
                 System.out.println(students[n].toString());
            }
 }
}
```