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JAVA PROGRAMMING FOR STUDENT DATA:
import java.util.ArrayList;
import java.util.Scanner;
class Student
 {
  private String name;
  private int id;
  private ArrayList<String> courses;
  public Student(String name, int id)
  {
    this.name = name;
    this.id = id;
    this.courses = new ArrayList<>();
  }
  public String getName() {
    return name;
  public int getId() {
    return id;
  public ArrayList<String> getCourses() {
    return courses;
  public void enroll(String course) {
    courses.add(course);
  }
}
public class CollegeManagementSystem
  private static ArrayList<Student> students = new ArrayList<>();
  private static int nextStudentId = 1;
```

```
public static void main(String[] args) {
  Scanner scanner = new Scanner(System.in);
  while (true)
 {
    System.out.println("Welcome to College Management System");
    System.out.println("1. Add Student");
    System.out.println("2. Enroll Student in Course");
    System.out.println("3. Display Student Information");
    System.out.println("4. Exit");
    System.out.print("Enter your choice: ");
    int choice = scanner.nextInt();
    scanner.nextLine(); // Consume newline
    switch (choice) {
      case 1:
        addStudent(scanner);
        break;
      case 2:
        enrollStudent(scanner);
        break;
      case 3:
        displayStudentInfo(scanner);
        break;
      case 4:
        System.out.println("Exiting College Management System. Goodbye!");
        scanner.close();
        return;
      default:
        System.out.println("Invalid choice. Please try again.");
    }
  }
}
```

```
private static void addStudent(Scanner scanner)
{
  System.out.print("Enter student name: ");
   String name = scanner.nextLine();
   Student student = new Student(name, nextStudentId++);
  students.add(student);
  System.out.println("Student added successfully with ID: " + student.getId());
}
  private static void enrollStudent(Scanner scanner)
 {
  System.out.print("Enter student ID: ");
  int id = scanner.nextInt();
  scanner.nextLine();
  Student student = findStudentById(id);
  if (student == null)
  {
     System.out.println("Student with ID " + id + " not found.");
     return;
  }
   System.out.print("Enter course name to enroll in: ");
   String course = scanner.nextLine();
  student.enroll(course);
  System.out.println("Student " + student.getName() + " enrolled in course: " + course);
 }
private static void displayStudentInfo(Scanner scanner)
 {
  System.out.print("Enter student ID: ");
  int id = scanner.nextInt();
   scanner.nextLine(); // Consume newline
   Student student = findStudentById(id);
   if (student == null)
```

```
{
      System.out.println("Student with ID " + id + " not found.");
      return;
    }
    System.out.println("Student ID: " + student.getId());
    System.out.println("Student Name: " + student.getName());
    System.out.println("Enrolled Courses: " + student.getCourses());
  }
  private static Student findStudentById(int id)
{
    for (Student student : students) {
      if (student.getId() == id) {
         return student;
      }
    }
    return null;
 }
}
```