ID:221-15-5914

Section:W

public class Student{  
 private int id;  
 private String name;  
 private String email;  
 private String contactNumber;  
 private String address;  
  
 }

public class Course {

private int id;

private String name;

private String description;

private double fee;

}

public class Payment {

private int id;

private Student student;

private Course course;

private String paymentDate;

private double amount;

}

public class TuitionManagementSystem {

public class TuitionManagementSystem {

private List<Student> students;

private List<Course> courses;

private List<Payment> payments;

public TuitionManagementSystem() {

students = new ArrayList<>();

courses = new ArrayList<>();

payments = new ArrayList<>();

}

public void addStudent(Student student) {

students.add(student);

}

public void removeStudent(Student student) {

students.remove(student);

}

public void addCourse(Course course) {

courses.add(course);

}

public void removeCourse(Course course) {

courses.remove(course);

}

public void addPayment(Payment payment) {

payments.add(payment);

}

public void removePayment(Payment payment) {

payments.remove(payment);

}

public Student getStudentById(int id) {

for (Student student : students) {

if (student.getId() == id) {

return student;

}

}

return null;

}

public Course getCourseById(int id) {

for (Course course : courses) {

if (course.getId() == id) {

return course;

}

}

return null;

}

public Payment getPaymentById(int id) {

for (Payment payment : payments) {

if (payment.getId() == id) {

return payment;

}

}

return null;

}

public void generateStudentReport(Student student) {

// Implement the logic to generate a report for a specific student

}

public void generateCourseReport(Course course) {

}

public void generatePaymentReport(Payment payment) {

}

}

public class Main {

public static void main(String[] args) {

TuitionManagementSystem tuitionManagementSystem = new TuitionManagementSystem();

}