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import java.util.*;

class Student {
    int id;
    String name;
    double marks;

    Student(int id, String name, double marks) {
        this.id = id;
        this.name = name;
        this.marks = marks;
    }

    @Override
    public String toString() {
        return id + " - " + name + " - " + marks;
    }
}

public class StudentRecordSystem {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        List<Student> students = new ArrayList<>();

        while (true) {
            System.out.println("\n===== Student Record System =====");
            System.out.println("1. Add Student");
            System.out.println("2. Display Students");
            System.out.println("3. Search Student by ID");
            System.out.println("4. Delete Student by ID");
            System.out.println("5. Update Student by ID");
            System.out.println("6. Exit");
            System.out.print("Enter choice: ");

            int choice = sc.nextInt();
            sc.nextLine();

            switch (choice) {
                case 1: // Add
                    System.out.print("Enter ID: ");
                    int id = sc.nextInt();
                    sc.nextLine();
                    System.out.print("Enter Name: ");
                    String name = sc.nextLine();
                    System.out.print("Enter Marks: ");
                    double marks = sc.nextDouble();
                    students.add(new Student(id, name, marks));
                    System.out.println("Student added successfully.");
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            break;

        case 2: // Display
            if (students.isEmpty()) {
                System.out.println("No records found.");
            } else {
                for (Student s : students) {
                    System.out.println(s);
                }
            }
            break;

        case 3: // Search
            System.out.print("Enter ID to search: ");
            int searchId = sc.nextInt();
            boolean found = false;
            for (Student s : students) {
                if (s.id == searchId) {
                    System.out.println("Record Found: " + s);
                    found = true;
                    break;
                }
            }
            if (!found) {
                System.out.println("Record not found!");
            }
            break;

        case 4: // Delete
            System.out.print("Enter ID to delete: ");
            int delId = sc.nextInt();
            Iterator<Student> it = students.iterator();
            boolean deleted = false;
            while (it.hasNext()) {
                if (it.next().id == delId) {
                    it.remove();
                    deleted = true;
                    System.out.println("Record deleted successfully.");
                    break;
                }
            }
            if (!deleted) {
                System.out.println("Record not found!");
            }
            break;

        case 5: // Update
            System.out.print("Enter ID to update: ");
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                int updId = sc.nextInt();
                sc.nextLine();
                boolean updated = false;
                for (Student s : students) {
                    if (s.id == updId) {
                        System.out.print("Enter new name: ");
                        s.name = sc.nextLine();
                        System.out.print("Enter new marks: ");
                        s.marks = sc.nextDouble();
                        updated = true;
                        System.out.println("Record updated successfully.");
                        break;
                    }
                }
                if (!updated) {
                    System.out.println("Record not found!");
                }
                break;

            case 6: // Exit
                System.out.println("Exiting...");
                sc.close();
                return;

            default:
                System.out.println("Invalid choice, try again.");
        }
    }
  }
}
```