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import java.util.*;

record Student(int id, String name, int age) {}

public class student_management {
    static HashMap<Integer, Student> students = new HashMap<>();
    static Scanner sc = new Scanner(System.in);

    public static void main(String[] args) {
        while (true) {
            System.out.println("1. Add");
            System.out.println("2. Update");
            System.out.println("3. Remove");
            System.out.println("4. View");
            System.out.println("5. Exit");

            switch (sc.nextInt()) {
                case 1 : {
                    int id = input("ID: ");
                    students.put(id, new Student(id, text("Name: "), input("Age:
                    ")));
                }
                case 2 : {
                    int id = input("ID: ");
                    if (students.containsKey(id)) {
                        students.replace(id, new Student(id, text("New Name: "),
input("New Age: ")));
                    } else {
                        System.out.println("Student not found.");
                    }
                }
                case 3 : {
                    System.out.println(students.remove(input("ID: ")) != null ?
"Removed" : "Student not found.");
                }
                case 4 : {
                    int id = input("ID: ");
                    Student student = students.get(id);
                    System.out.println(student != null ? student : "Student not
found.");
                }
            }
        }
    }
}

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        }
        case 5 : {
            return;
        }
        default :
            System.out.println("Invalid choice. Try again.");
    }
}

static int input(String msg) {
    System.out.print(msg);
    return sc.nextInt();
}

static String text(String msg) {
    System.out.print(msg);
    sc.nextLine();
    return sc.nextLine();
}
}

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