**HOSTEL MANAGEMENT APP CODE**

import java.util.ArrayList;

import java.util.Scanner;

class Student {

private String name;

private int rollNo;

private String roomNo;

public Student(String name, int rollNo, String roomNo) {

this.name = name;

this.rollNo = rollNo;

this.roomNo = roomNo;

}

public String getName() {

return name;

}

public int getRollNo() {

return rollNo;

}

public String getRoomNo() {

return roomNo;

}

@Override

public String toString() {

return "Student [Name=" + name + ", Roll No=" + rollNo + ", Room No=" + roomNo + "]";

}

}

class HostelManagement {

private ArrayList<Student> students;

public HostelManagement() {

students = new ArrayList<>();

}

public void addStudent(Student student) {

students.add(student);

System.out.println("Student added successfully.");

}

public void removeStudent(int rollNo) {

Student studentToRemove = null;

for (Student student : students) {

if (student.getRollNo() == rollNo) {

studentToRemove = student;

break;

}

}

if (studentToRemove != null) {

students.remove(studentToRemove);

System.out.println("Student removed successfully.");

} else {

System.out.println("Student with Roll No " + rollNo + " not found.");

}

}

public void displayStudents() {

if (students.isEmpty()) {

System.out.println("No students in the hostel.");

} else {

for (Student student : students) {

System.out.println(student);

}

}

}

}

public class HostelManagementApp {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

HostelManagement hostelManagement = new HostelManagement();

while (true) {

System.out.println("\nHostel Management System");

System.out.println("1. Add Student");

System.out.println("2. Remove Student");

System.out.println("3. Display Students");

System.out.println("4. Exit");

System.out.print("Enter your choice: ");

int choice = scanner.nextInt();

scanner.nextLine(); // Consume newline

switch (choice) {

case 1:

System.out.print("Enter student name: ");

String name = scanner.nextLine();

System.out.print("Enter roll number: ");

int rollNo = scanner.nextInt();

scanner.nextLine(); // Consume newline

System.out.print("Enter room number: ");

String roomNo = scanner.nextLine();

Student student = new Student(name, rollNo, roomNo);

hostelManagement.addStudent(student);

break;

case 2:

System.out.print("Enter roll number of student to remove: ");

int rollNoToRemove = scanner.nextInt();

hostelManagement.removeStudent(rollNoToRemove);

break;

case 3:

hostelManagement.displayStudents();

break;

case 4:

System.out.println("Exiting...");

scanner.close();

return;

default:

System.out.println("Invalid choice. Please try again.");

break;

}

}

}

}