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import java.util.Scanner;

public class HotelBookingSystem {

    static final int FLOORS = 5;           // Total number of floors
    static final int ROOMS_PER_FLOOR = 5; // Total rooms per floor
    static boolean[][] rooms = new boolean[FLOORS][ROOMS_PER_FLOOR];

    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        int choice;

        System.out.println("...Welcome to the Hotel Room Booking System...");

        do {
            displayMenu();
            choice = scanner.nextInt();

            switch (choice) {
                case 1:
                    viewRooms();
                    break;
                case 2:
                    bookRoom(scanner);
                    break;
                case 3:
                    System.out.println("Thank you for using the booking system.
Hava a Good Day!");
                    break;
                default:
                    System.out.println("Invalid option. Please select 1-3.");
            }
        } while (choice != 3);

        scanner.close();
    }

    // Display Main Menu
    static void displayMenu() {
        System.out.println("\nPlease choose an option:");
        System.out.println("1. View room availability");
        System.out.println("2. Book a room");
        System.out.println("3. Exit");
        System.out.print("Enter your choice: ");
    }

    // Display room status
    static void viewRooms() {
        System.out.println("\nRoom Availability (A = Available, X = Booked):");
        for (int floor = 0; floor < FLOORS; floor++) {
            System.out.print("Floor " + (floor + 1) + ": ");
            for (int room = 0; room < ROOMS_PER_FLOOR; room++) {
                System.out.print(rooms[floor][room] ? "X " : "A ");
            }
        }
    }
}

```

⊖ that error