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import java.util.Scanner;

public class TextAdventureGame {

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

        System.out.println("Welcome to the Text Adventure Game!");
        System.out.println("You wake up in a mysterious room. What do you
do?");

        System.out.println("1. Look around");
        System.out.println("2. Go back to sleep");

        int choice = getUserChoice(scanner, 1, 2);

        if (choice == 1) {
            System.out.println("You look around and find a key. What do you
do?");

            System.out.println("1. Pick up the key");
            System.out.println("2. Ignore the key");

            choice = getUserChoice(scanner, 1, 2);

            if (choice == 1) {
                System.out.println("You picked up the key. You notice a locked
door. What do you do?");
                System.out.println("1. Try the key on the door");
                System.out.println("2. Look for another way out");

                choice = getUserChoice(scanner, 1, 2);

                if (choice == 1) {
                    System.out.println("The key fits! You escape the room and
win the game.");
                } else {
                    System.out.println("You search for another way out but
find none. You are trapped forever.");
                }
            } else {
                System.out.println("You ignore the key and sit down. Nothing
happens.");
            }
        } else {
            System.out.println("You go back to sleep and dream of better days.
The end.");
        }
    }
}
```

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        scanner.close();
    }

    private static int getUserChoice(Scanner scanner, int minChoice, int
maxChoice) {
        int choice;
        do {
            System.out.print("Enter your choice: ");
            while (!scanner.hasNextInt()) {
                System.out.println("Invalid input. Please enter a number.");
                scanner.next();
            }
            choice = scanner.nextInt();
            if (choice < minChoice || choice > maxChoice) {
                System.out.println("Invalid input. Please enter a valid
choice.");
            }
        } while (choice < minChoice || choice > maxChoice);
        return choice;
    }
}
```