

# Reflection Log Group Assignment

```
// Create a Scanner object for user input
Scanner userInput = new Scanner(System.in);
```

This code creates a Scanner object called userInput to read input from the user, typically from the keyboard.

```
// Prompt the user for their first and last name
System.out.print("Please Enter Your First Name: ");

String firstName = userInput.nextLine();

System.out.print("Please Enter your last name: ");

String lastName = userInput.nextLine();
```

This code prompts the user to enter their first and last name. It displays a message asking for the first name, reads the input, and stores it in the variable firstName. Then, it prompts for the last name, reads that input, and stores it in the variable lastName.

```
// Get the first letter of the last name and convert it to uppercase
char firstLet = Character.toUpperCase(lastName.charAt(0));
```

This code gets the first letter of the variable lastName, converts it to uppercase, and stores it in the variable firstLet. It uses charAt(0) to access the first character and Character.toUpperCase() to ensure it's in uppercase.

```
// Determine the group assignment based on the first letter of the last name
String group;

if (firstLet >= 'A' && firstLet <= 'I') {
    group = "Group 1";
} else if (firstLet >= 'J' && firstLet <= 'S') {
    group = "Group 2";
} else if (firstLet >= 'T' && firstLet <= 'Z') {
    group = "Group 3";
} else {
    group = "Unknown Group"; // Edge case handling
}
```

**This code assigns a group to a user based on the first letter of their last name, placing them in "Group 1" for letters A-I, "Group 2" for J-S, "Group 3" for T-Z, or "Unknown Group" if the letter falls outside these ranges.**

```
// Display the name and the group they are assigned to
System.out.println(firstName + " " + lastName + " is assigned to " + group + ".");
```

**This code displays the user's full name (first and last) along with the group they have been assigned to, formatting the output as a complete sentence.**