## Reflection Log

```
14 package Mastery;
16 import java.util.Scanner;
17
18 public class GroupAssignment {
Here I imported the Scanner for the code.
        public static void main(String[] args) {
21
            // Create a Scanner object for user input
22
            Scanner userInput = new Scanner(System.in);
Here I created a new scanner for the program.
 // Prompt the user for their first and last name
 System.out.print("Enter your first name: ");
 String firstName = userInput.nextLine();
 System.out.print("Enter your last name: ");
 String lastName = userInput.nextLine();
This is where the program prompts the user for their first and last name.
 // Get the first letter of the last name and convert it to uppercase
 char firstLetter = Character.toUpperCase(lastName.charAt(0));
The program then takes the first letter from both your first and last names.
// Determine the group assignment based on the first letter of the last name
String group;
 if (firstLetter >= 'A' && firstLetter <= 'I') {
     group = "Group 1";
 } else if (firstLetter >= 'J' && firstLetter <= 'S') {
     group = "Group 2";
 } else if (firstLetter >= 'T' && firstLetter <= 'Z') {</pre>
     group = "Group 3";
 } else {
     group = "Unknown Group"; // Edge case handling
```

Then the program checks to see which group the user's name will be in. Group 1 for A to I,

System.out.println(firstName + " " + lastName + " is assigned to " + group + ".");

Then the program displays the user's group back to the user.

Group 2 for J to S, Group for T to Z.

// Display the group assignment

```
// Close the scanner to avoid resource leak
userInput.close();
}
```

The scanner is closed.