JF section 3 practice

Here's a complete example demonstrating how to use `JOptionPane` for user interaction in Java. This example includes prompts for the user to enter their name, displays a personalized greeting, and confirms the user's name.

```java
import javax.swing.JOptionPane;

public class JavaLibsPractice {
    public static void main(String[] args) {
        // Prompt the user to enter their name
        String name = JOptionPane.showInputDialog("Enter your name:");

        // If the user does not enter a name, handle it gracefully
        if (name == null || name.isEmpty()) {
            name = "Guest";
        }

        // Display a personalized greeting message
        JOptionPane.showMessageDialog(null, "Hello, " + name + "!");

        // Optional: Show the user's name in a confirmation dialog
        int response = JOptionPane.showConfirmDialog(null, "Is your name " + name + "?",
                            "Name Confirmation", JOptionPane.YES_NO_OPTION);

        if (response == JOptionPane.YES_OPTION) {
            JOptionPane.showMessageDialog(null, "Great! Have a wonderful day, " + name + "!");
        } else {
            JOptionPane.showMessageDialog(null, "Oops! Please restart the application and try again.");
        }
```

```
    }
}
```

Explanation

1. **Import the `JOptionPane` class**:

   ```java
   import javax.swing.JOptionPane;
   ```

2. **Prompt the user to enter their name**:

   ```java
   String name = JOptionPane.showInputDialog("Enter your name:");
   ```

3. **Handle cases where the user does not enter a name**:

   ```java
   if (name == null || name.isEmpty()) {
       name = "Guest";
   }
   ```

4. **Display a personalized greeting message**:

   ```java
   JOptionPane.showMessageDialog(null, "Hello, " + name + "!");
   ```

5. **Show the user's name in a confirmation dialog**:

   ```java
   int response = JOptionPane.showConfirmDialog(null, "Is your name " + name + "?",
                        "Name Confirmation", JOptionPane.YES_NO_OPTION);
   ```

```
```

6. **Handle the user's response to the confirmation dialog**:

```java
if (response == JOptionPane.YES_OPTION) {

    JOptionPane.showMessageDialog(null, "Great! Have a wonderful day, " + name + "!");

} else {

    JOptionPane.showMessageDialog(null, "Oops! Please restart the application and try again.");

}
```

This example uses `JOptionPane` to create simple dialog boxes for user interaction, making it a user-friendly way to handle input and output in a Java application.