

1. **Social Media Post Management:**

a. Create a single class `SocialMediaPost`. b. Implement the main method. c. Create two non-static methods: `createPost` and `publishPost`. d. Implement one static method `generatePostID`. e. In the `createPost` method, call both non-static methods and the static method. f. In the main method, call the `createPost` method.

2. **Employee Payroll System:**

a. Create a single class `PayrollSystem`. b. Implement the main method. c. Create two static methods: `calculateSalary` and `generatePaySlip`. d. In the main method, call the first static method, which, in turn, calls the second static method.

3. **Temperature Converter:**

a. Create a single class `TemperatureConverter`. b. Implement the main method. c. Create one static method `convertToFahrenheit`. d. Create two non-static methods: `setCelsiusTemperature` and `displayResult`. e. In the `convertToFahrenheit` method, call both non-static methods. f. In the main method, call the `convertToFahrenheit` method.

4. **Online Shopping Cart:**

a. Create a single class `ShoppingCart`. b. Implement the main method. c. Create three non-static methods: `addItem`, `removeItem`, and `checkout`. d. Create two static methods: `calculateTotal` and `generateInvoice`. e. In the `addItem` and `removeItem` methods, call the static method `calculateTotal`. f. In the `checkout` method, call both non-static methods (`addItem` and `removeItem`) and the static method `generateInvoice`. g. In the main method, call the `checkout` method.

5. **Recipe Management System (Modified):**

a. Create a single class `RecipeManager`. b. Implement the main method. c. Create three non-static methods: `addIngredient`, `removeIngredient`, and `prepareRecipe`. d. Create two static methods: `calculateTotalCalories` and `printRecipe`. e. In the `addIngredient` method, call both non-static methods (`removeIngredient` and `prepareRecipe`). f. In the `removeIngredient` method, call the static method `calculateTotalCalories`. g. In the `prepareRecipe` method, call the non-static method `addIngredient`. h. In the main method, call the non-static method `prepareRecipe`.