### Description

Create Georgian Dish Archive (GDA) in java.

This software has following features:

- 1. Storage for the dishes
- 2. Ability to add the dish to the Archive
- 3. Ability remove the dish from the archive
- 4. Ability to print fulfilling information about dishes on the console

#### Structure

We will need the following classes for the software:

- 1. GeorgianRecipe the repice itself.
- 2. GeorgianRecipeArchive how it is managed
- 3. GRAT tester class. This class is used to test software's effectiveness.

### Class Georgian Recipe

String	name, region
String	description
List <string></string>	ingredients
String	instructions

## Class GeorgianRecipeArchive

```
void addRecipe (GeorgianRecipe recipe)

Boolean removeRecipe(GeorgianRecipe recipe)

void printRecipes()
```

# Class GeorgianRecipe

The class GeorgianRecipe should have several fields, including name, region, description, ingredients, instructiond. This class can be implemented in the following way:

```
package lizi_zarkua_1.task3;

import java.util.List;

public class GeorgianRecipe{
    private String name, region;
    private String description;
    private List-Strings ingredients;
    private String instructions;

public String getName() {
    return name;
    }

public void setName(String name) {
    this.name = name;
    }

public String getRegion() {
    return region;
    }
}
```

```
public void setRegion(String region) {
    [this.region = region;
}

public String getDescription() {
    return description;
}

public void setDescription(String description) {
    [this.description = description;]
}

public void setIngredients(List<String> ingredients) {
    [this.ingredients = ingredients;}
}

public List<String> getIngredients() {
    return ingredients;
}

public String getInstructions() {
    return instructions;
}

public void setInstructions(String instructions) {
    this.instructions = instructions;
}
```

## Class GeorgianRecipeArchive

The Georgian Dish Archive should have an inner structure for storing dishes. The system should have methods for adding the new dishes and removing them. It should have the ability to print the entire Archive content when needed. The class can be implemented in the following way:

```
package lizi zarkua 1.task3;
public class GeorgianRecipeArchive {
   private List<GeorgianRecipe> storage = new ArrayList<>();
   public void addRecipe(GeorgianRecipe recipe) {
       storage.add(recipe);
   public boolean removeRecipe(GeorgianRecipe recipe) {
       boolean removed = false;
       for (int i = 0; i < storage.size(); i++) {</pre>
           GeorgianRecipe r = storage.get(i);
           if (r.getName().equals(recipe.getName()) && r.getRegion().equals(recipe.getRegion())) {
              storage.remove(i);
               removed = true;
       return removed;
   public void printRecipes() {
       if (storage.isEmpty()) {
           System.out.println(x:"The archive is empty");
       } else {
           for (GeorgianRecipe r : storage) {
             System.out.println(r.getName() + ", " + r.getRegion());
               System.out.println(r.getDescription());
               System.out.println("Ingredients: " + r.getIngredients());
               System.out.println("Instructions: " + r.getInstructions());
               System.out.println();
```

#### **GDA Tester class**

Now let's test our software. First, create some dishes. Then add to our archive and remove from it. Then try to print all the information about dishes.

```
package lizi_zarkua_l.task3;
import java.util.Arrays;

public class GRAT {
    Run[Dabug
    public static void main(String[] args) {
        GeorgianRecipe recipe1 = new GeorgianRecipe();
        recipe1.setName(name:"Khachapuri");
        recipe1.setRegion(region:"Adjarian");
        recipe1.setRegion(region:"Adjarian");
        recipe1.setDescription(description:"A traditional Georgian cheese-filled bread.");
        recipe1.setIngredients(Arrays.asList(...a:"Flour", "Cheese", "Eggs", "Butter"));
        recipe1.setInstructions(instructions:"Mix the ingredients, shape the dough, add cheese, bake in the oven.");

        GeorgianRecipe recipe2 = new GeorgianRecipe();
        recipe2.setMame(name:"Khinkali");
        recipe2.setMame(name:"Khinkali");
        recipe2.setDescription(description:"A traditional Georgian dumpling filled with spiced meat.");
        recipe2.setIngredients(Arrays.asList(...a:"Flour", "Ground beef", "Onion", "Spices"));
        recipe2.setInstructions(instructions:"Prepare the filling, make dough pockets, fill with the filling, boil.");

        GeorgianRecipeArchive archive = new GeorgianRecipeArchive();
        archive.addRecipe(recipe1);
        archive.addRecipe(recipe1);
        archive.printRecipes();
    }
}
```