

Objective

The objective of this workshop is to write a console-based shopping cart with Java. The shopping cart will be stored with an appropriate collection type.

Setup

- a. Create an account on Github.com. You can ignore this step if you have an account.
- b. Create a repository on Github
- c. Open your IDE and create the directories called `src` and `classes`; these directories are for your source code and compiled Java classes respectively
- d. Make the project directory a Git repository
- e. Add `.gitignore` to ignore the target directory
- f. Add the remote repository (step b above) as the origin of your local repository

Workshop

Write a Java console program that allows a user to add, remove and list the contents of a shopping card.

The behaviour of the program is shown below. The `>` is the prompt

```
Welcome to your shopping cart
> list
Your cart is empty
> add apple
apple added to cart
> add orange, pear
orange added to cart
pear added to cart
> list
1. apple
2. orange
3. pear
delete 2
orange removed from cart
> list
1. apple
2. pear
> add apple, grapes
```

```
You have apple in your cart
grapes added to cart
> list
1. apple
2. pear
3. grapes
> delete 4
Incorrect item index
```

You are to implement the following commands

- `list` - list the contents of the cart. If the cart is empty, print an appropriate message. The contents of the cart should be numbered when you are listing them
- `add` - add one or more items to the cart. Multiple items are separated by a comma (,).
You should not add an item that is already in the cart. Print an appropriate message.
Item names are case sensitive (or you can try implementing case insensitive)
- `delete` - delete an item from the cart based on the item's index (from `list` command). If an incorrect index is provided, display an error message

Submission

When you have completed your program, commit and push your code to the remote repository.