Objective

The objective of this workshop is to implement a simple text file database

Setup

a. Create a branch from day 1 workshop (shopping cart)

Workshop

Extend day 1 workshop to perform the following. The > is the prompt

```
Welcome to your shopping cart
> login fred
fred, 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
> save
Your cart has been saved
> login barney
barney, your cart contains the following items
1. coffee
2. sugar
3. biscuits
> add apple
apple added to cart
> list
1. coffee
2. sugar
3. biscuits
4. apple
> save
Your cart has been saved
> users
The following users are registered
1. fred
2. barney
```

Task 1

Add an option to specify a directory to be used to store user's shopping cart eg.

```
java shoppingcart.jar cartdb
```

where cartdb is a directory to be used to store user's cart. If the program is started without specifying the cart database directory, then the program will default to use a directory called db. If this directory does not exist, create it.

Task 2

Implement the following additional commands (in addition to those from day 1 workshop)

• login - load the specified user's database file from the shopping cart directory. If the database file does not exist, create the file. Eg

```
login fred
```

will load the file cartdb/fred.db where cartdb is the shopping cart directory

• save - save the contents of the cart to the user's shopping cart file eg cartdb/fred.db. If you try to save without first login a particular user, you should print a message reminding the user to first login as a particular user.

The save format will be described below.

 users - list all users; this is the listing all the filenames under the shopping cart directory

Create a class called ShoppingCartDB to manage the database; the class should contain methods like load a shopping cart, save a shopping cart, etc.

Task 3

You should save the contents of a shopping cart as text file. Assuming that fred has the following items in his cart: apple, orange, pear then his cart will be stored as follows

```
cartdb/fred.db
apple
orange
```

pear

Task 4

Write test for ShoppingCartDB.

Submission

When you have completed your program, merge the feature branch to the master. Commit and push the master branch to the remote repository.