Mini Project Week 3

So far we've been using one-dimensional lists of data, however, this won't work for orders. We need to store more information such as the customer's name, address and phone number, as well as the status of the order, the courier etc. To solve this we'll use a two-dimensional data structure, a dictionary. We won't be able to read/write this structure to text file anymore, but we'll fix this later. For now we'll also skip adding products to the order.

We'll also write a unit test that covers the update order status functionality.

Goals

As a user I want to:

- create a product, courier, or order and add it to a list
- · view all products, couriers, or orders
- update the status of an order
- · persist my data
- STRETCH update or delete a product, order, or courier

Spec

- A product should just be a string containing its name, i.e: "Coke Zero"
- A list of products should be a list of strings, i.e: ["Coke Zero"]
- A courier should just be a string containing its name, i.e: "John"
- A list of couriers should be a list of strings, i.e: ["John"]
- An order should be a dict, i.e:

```
{
  "customer_name": "John",
  "customer_address": "Unit 2, 12 Main Street, LONDON, WH1 2ER",
  "customer_phone": "0789887334",
  "courier": 2,
  "status": "preparing"
}
```

- A list of orders should be a list of dicts, i.e: [{...},{...}]
- Data should be persisted to a .txt file on a new line for each courier or product, ie:

```
John
Claire
```

Pseudo Code

LOAD products list from products.txt LOAD couriers list from couriers.txt CREATE orders list of dictionaries # WEEK 3 UPDATE CREATE order status list # WEEK 3 UPDATE PRINT main menu options GET user input for main menu option IF user input is 0: SAVE products list to products.txt SAVE couriers list to couriers.txt EXIT app # products menu ELSE IF user input is 1: PRINT product menu options GET user input for product menu option IF user inputs 0: RETURN to main menu ELSE IF user input is 1: PRINT products list ELSE IF user input is 2: # CREATE new product GET user input for product name APPEND product name to products list ELSE IF user input is 3: # STRETCH GOAL - UPDATE existing product PRINT product names with its index value GET user input for product index value GET user input for new product name UPDATE product name at index in products list ELSE IF user input is 4: # STRETCH GOAL - DELETE product PRINT products list GET user input for product index value DELETE product at index in products list # couriers menu ELSE IF user input is 2: PRINT courier menu options GET user input for courier menu option IF user inputs 0: RETURN to main menu ELIF user inputs 1:

PRINT couriers list

ELSE IF user input is 2:
 # CREATE new courier
GET user input for courier name
APPEND courier name to couriers list

ELSE IF user input is 3:
 # STRETCH GOAL - UPDATE existing courier

PRINT courier names with its index values GET user input for courier index value GET user input for new courier name UPDATE courier name at index in couriers list

ELSE IF user input is 4:
 # STRETCH GOAL - DELETE courier

PRINT courier list GET user input for courier index value DELETE courier at index in courier list

orders menu - WEEK 3 UPDATE
ELSE IF user input is 3:
 IF user input is 0:
 RETURN to main menu

ELSE IF user input is 1:
PRINT orders dictionary

ELSE IF user input is 2:

GET user input for customer name

GET user input for customer address

GET user input for customer phone number

PRINT couriers list with index value for each courier GET user input for courier index to select courier SET order status to be 'PREPARING' APPEND order to orders list

ELSE IF user input is 3:
 # UPDATE existing order status

PRINT orders list with its index values GET user input for order index value

PRINT order status list with index values GET user input for order status index value UPDATE status for order

ELSE IF user input is 4:
 # STRETCH - UPDATE existing order

PRINT orders list with its index values

GET user input for order index value

FOR EACH key-value pair in selected order:

GET user input for updated property

IF user input is blank:

do not update this property

ELSE:

update the property value with user input

ELSE IF user input is 5:
 # STRETCH GOAL - DELETE courier

PRINT orders list GET user input for order index value DELETE order at index in order list