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.

STRETCH 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
- STRETCH add a unit test for the update order status functionality

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
        {\tt GET} \ {\tt user} \ {\tt input} \ {\tt for} \ {\tt customer} \ {\tt 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
    {\tt PRINT} \ {\tt orders} \ {\tt list} \ {\tt with} \ {\tt its} \ {\tt index} \ {\tt 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
```