**Mini Project Week 3**

Now that our app can create and list products, and handle orders it should be simple enough to do the same for couriers. We'll also dump our data into .txt files so we don't lose it. Try to ensure code that writes or reads from a text file is separated from the code that prints a list for example.

**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 (products and couriers)
* *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, // Courier index

"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

CREATE order status list

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 value

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**

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 order

PRINT orders list

GET user input for order index value

DELETE order at index in order list