**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

**PRINT courier menu options**

        print(

            "\n     Courier Menu options:"

            "\n1. Get list of all the couriers. "

            "\n2. Add new courier in the list. "

            "\n3. Update an courier item in the list. "

            "\n4. Delete a courier from the list. "

            "\n0. Return to main menu. "

        )