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,
  "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 2:
        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
```