**Mini Project Week 2**

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. To solve this, we'll use a two-dimensional data structure, a **`dictionary**`.

We won't be able to read/write this structure to a text file anymore, but we'll fix this later.

For now, we'll also skip adding products to the order.

**Goals**

As a user I want to:

- create a product or order, and add it to the relevant list

- view all products or orders

- \_STRETCH\_ I want to be able to update or delete a product or order

**Spec**

- A `product` should just be a `string` containing its name, i.e: `"Mocha"`

- A list of `products` should be a list of `strings`, i.e: `["Mocha, Americano"]`

- An `order` should be a `dictionary`, i.e:

{

"customer\_name": "John Jones",

"customer\_address": "Main Street, LONDON",

"customer\_phone": "07987654321",

"status": "preparing"

}

- A list of `orders` should be a `list` of `dictionary` objects, i.e: `[{...},{...}]`

**Pseudo Code**

PRINT main menu options

GET user input for main menu option

IF user input is 0:

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

# 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

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