

Week 8 (Module)

Exercise 1

Modify Exercise 6 from Week 8 (Function) by using Module.

Exercise 2

Write a Python function for a DIY Soap Shop for their customers to key in the ingredients purchase and courses that they are interested.

You are required to use (at least) 4 modules for this exercise:

- Menus Module – to display and accept the inputs from the users.
- Calculate the purchase Module – to calculate based on the selection/input from the users.
- Display the purchase Module – to display the cost and total from the selection.
- Main Module – the main module to connect all modules to work together. The application will be repeating until user selects **“Calculate and Quit”**.
- Note: The application able to display the appropriate error message.

Menus Module

```
[1]Ingredients Purchase
[2]DIY Soap Courses
[3]Calculate and Quit
```

Choice:

```
Choice:1
The DIY Soap Shop
Olive Oil (ounces):10
Coconut Oil (ounces):10
Palm Oil (ounces):10
Shea Butter (ounces):10
Lye (ounces):10
```

Choice:2

```
DIY Soap Courses
[4]days DIY Soap Courses
[5]days DIY Soap Courses
[6]days DIY Soap Courses
```

Calculate the purchase Module

When Choice 1 – **Ingredient Purchase** is selected, Ingredients Purchase menu will be prompted for user to input the amount that they want for each item listed. Calculate based on the price list below:

Olive Oil (ounces)	4.50
Coconut Oil (ounces)	6.59
Palm Oil (ounces)	12.50
Shea Butter (ounces)	4.99
Lye (ounces)	0.16

Table 1: Price list

When Choice 2 – **DIY Soap courses** is selected, the cost for each course as per below:

4 Days DIY Soap Course	450.00
5 Days DIY Soap Course	550.00
6 Days DIY Soap Course	650.00

Table 2: Cost per course

Display the purchase Module

When Choice 3 is selected: **Calculate and Quit**, the expected output as below:

1. The user did both purchase the ingredients and a course:

```
Choice:3
DIY Soap Shop
Olive Oil (ounces): 22.50
Coconut Oil (ounces): 32.95
Palm Oil (ounces): 125.00
Shea Butter (ounces): 49.90
Lye (ounces): 8.00
4 Days DIY Soap Courses : 450.00
Total: 688.35
```

2. The user only signed up the course:

```
Choice:2

DIY Soap Courses
[4]days DIY Soap Courses
[5]days DIY Soap Courses
[6]days DIY Soap Courses

Choice:6

[1]Ingredients Purchase
[2]DIY Soap Courses
[3]Calculate and Quit

Choice:3
6 Days DIY Soap Courses : 650.00
Total: 650.00
```

3. The user only purchase the ingredients:

```
Choice:1
The DIY Soap Shop
Olive Oil (ounces):50
Coconut Oil (ounces):50
Palm Oil (ounces):50
Shea Butter (ounces):50
Lye (ounces):50

[1]Ingredients Purchase
[2]DIY Soap Courses
[3]Calculate and Quit

Choice:3
DIY Soap Shop
Olive Oil (ounces): 225.00
Coconut Oil (ounces): 329.50
Palm Oil (ounces): 625.00
Shea Butter (ounces): 249.50
Lye (ounces): 8.00
Total: 1437.00
>>> |
```