IT Elective 4 - Mobile Application Development
Exercise 2 - Dart Programming Exercise

Problem 1: Gasoline Station

Peter Gasoline station just started their business. However, they need your help to build a simple gasoline station program. They offer 4 fuel types in their business; Leaded, Unleaded, Diesel and Bio-Diesel having prices of 45.75, 43.18, 37.12 and 48.03 respectively.

Input

First line of input is that the customer/user will select the type of fuel. For the next input, the customer/user will select the type of purchase; **by Cash** or **by Liter.** For the last input, the customer/user will input payment

Output

Your program will then display the following output;

If the user/customer selects Cash, output the total Liters acquired
If the user/customer selects Liter, output the total payable.

Calculate change as well.

Problem 2: Fibonacci sequence checker

Input

A List contains numbers/elements to be checked. Number of elements should be 3 *< n < 10,* where **n** is the number of elements. Inputs should be numbers only.

Process

Your program will check if the inputted numbers are in the same sequence in the Fibonacci sequence. For example, if input is [5, 8, 13, 21, 34], output should be True as all the numbers are in the same sequence with Fibonacci sequence.

Output

True - if numbers are in the same sequence as the Fibonacci. *False* - if not.

Note: Apply Dart List, Map, I/O, Loops, Conditions, Functions and OOP concepts on your code