Tasks

Overview

- Technology stack: .NET 6 SDK, Console Application
- Repository hosting: GitHub
- Learning path: Udemy for Levi9 Academy

Day 1: SRP and OCP

1. We will build a console application for a cafeteria. The cafeteria offers 3 types of coffee: **Espresso**, **Latte Macchiato** and **Cappuccino**. Each coffee can be served either in **a regular** or **large** glass. If a customer orders a large glass, then the price multiplies by **0,7€**. The sales assistant is a user of our application who wants to be able to view **the name**, **type** and **price** for every coffee ordered. You can choose any price for coffee.

```
Coffee = [
  { Name = "espresso", Type = 'R' },
  { Name = "cappuccino", Type = 'R' },
  { Name = "latte macchiato", Type = 'R' }
]
```

2. We have customers who order coffee with few toppings. So, we would like to extend our application to allow adding following types of toppings: **milk, cinnamon** and **brown sugar** (you can choose any price for them). Total price represents base price of ordered coffee summed up with prices of every added topping. For example, **espresso (€1) + milk (€0.8) + brown sugar (€0.2) = €2.00.**

```
Coffee = [
  { …, Toppings = [ Milk ] },
  { …, Toppings = [ Milk, Brown sugar] },
  { …, Toppings = [ Cinnamon] }
]
```

3. The management team has a strong customer focus, so they allow customers to choose a service type to be **in-house**, **coupon code** or **take away**. If a customer has a ***coupon code***, then a discount of 5% should be applied on the total price. ***Take away*** coffee costs 2% of total price, but if total price is higher than **€7.00**, then the service will be free of charge.

```
Coffee = [
  { …, ServiceType = Coupon Code },
  { …, ServiceType = Take Away },
  { …, ServiceType = Coupon Code }
]
```

4. Display the receipt in the console when the purchase is completed.