

Coding Assignment for Application Engineer

Coding Assignment: Charlene's Coffee Corner - Details

Recently, Charlene decided to open her very own little coffee shop on a busy street corner. Being the careful entrepreneur, she decided to start off with a limited offering, with the option to expand her choice of products, as business goes.

Her Offering

- Coffee (small, medium, large) 2.50 CHF, 3.00 CHF, 3.50 CHF
- Bacon Roll 4.50 CHF
- Freshly squeezed orange juice (0.25l) 3.95 CHF

Extras:

- Extra milk 0.30 CHF
- Foamed milk 0.50 CHF
- Special roast coffee 0.90 CHF

Bonus Program

- Charlene's idea is to attract as many regular's as possible to have a steady turnaround.
- She decides to offer a customer stamp card, where every 5th beverage is for free.
- If a customer orders a beverage and a snack, one of the extra's is free.

Coding Assignment: Charlene's Coffee Corner - Expectation

Your task is to:

Write a simple program whose **output** is formatted like a receipt you would receive at a supermarket.

The **input** to the program is a list of products the shopper wants to purchase (large coffee with extra milk, small coffee with special roast, bacon roll, orange juice)

Important:

- The only libraries which can be used are Java SE (any version) and JUnit (any version)
- Test Driven Development (TDD) is the recommended approach. In any case the solution must have automated tests
- There is no Graphical User Interface required and no persistence. It's a simple program
- If you come across an ambiguous requirement, make a sensible assumption and proceed

Artefacts

- Code
- User Case(1 pager min.)
- Technical Design(Service Oriented)
- Test Cases
- Engineering response

Timeline to Complete: Nov 19th, 2020

Please deliver all artefacts, so the program and tests can be executed and make them available via **Github** or bitbucket (our Email server otherwise blocks them)

THANK YOU