



Data Engineer - Technical Assignment

Thank you for your continued interest in joining Adthena. Please complete this task to the best of your ability. If you have any questions during the assignment, please don't hesitate to contact us with any questions.

Technology Requirement

You should complete the test using Scala

Duration

The assignment should be returned to us within 1 week. We believe it should not take you more than 4 to 6 hours working on it. If you need extra time due to other commitment please let us know.

Submission

Please submit your project via GitHub or BitBucket repositories. We won't accept submissions in note, archive, or text formats. Our review will focus on code structure, domain modeling, and the presence of unit tests.

Documentation

Please provide clear and detailed instructions on how to install and run your code locally from a clean repository. Please do not assume that test reviewers have knowledge of how to build or run your application.

Contact

Please feel free to contact with any questions
Ivan Nikolov (ivan@adthena.com) or Vasanth John (vasanth.john@adthena.com)

Technical Assignment - Shopping Basket

Write a program driven by unit tests that can price a basket of goods taking into account some special offers.

The goods that can be purchased, together with their normal prices are:

Soup – 65p per tin
Bread – 80p per loaf
Milk – £1.30 per bottle
Apples – £1.00 per bag

Current special offers

Apples have a 10% discount off their normal price this week
Buy 2 tins of soup and get a loaf of bread for half price

The program should accept a list of items in the basket and output the subtotal, the special offer discounts and the final price.

Input should be via the command line in the form PriceBasket item1 item2 item3 ...

For example

PriceBasket Apples Milk Bread

Output should be to the console, for example:

Subtotal: £3.10
Apples 10% off: 10p
Total price: £3.00

If no special offers are applicable the code should output:

Subtotal: £1.30
(No offers available)
Total price: £1.30

