

Work Assignment V

Bob's burgeoning fortune

During the day Bob runs a burger stall. Last year he made a healthy profit, which he has invested in crypto coins. Infact Bob now has so many coins he is finding it difficult to track their value.

Bob keeps a .txt file with the crypto symbol and the quantity he holds. An example file contents is:

```
BTC=10  
ETH=5  
XRP=2000
```

So Bob holds 10 Bitcoin, 5 Ether, etc.

During a quiet spell at the stall Bob stumbled upon a free to use REST API. For example, to find the current EUR price of Bitcoin he could make this call:

<https://min-api.cryptocompare.com/data/price?fsym=BTC&tsyms=EUR>

Bob has Java 8 installed on his work laptop. He would like to run a simple program which reads his input file and nicely prints the current EUR value of each coin he holds e.g. if BTC is worth 5 EUR, it would show 50 EUR based on the sample above.

Bob also wants the program to show the total value of all his investments.

Your task is to:

- write a **simple** program which prints the value of Bob's crypto portfolio
- the input to the program is a file called bobs_crypto.txt

Important:

- the **only** libraries which can be used are Java SE (any version) and JUnit (any version). This means you have to find a way of consuming the REST service using only Java SE
- Test Driven Development (TDD) is the recommended approach. In anycase the solution must have automated tests
- there is no Graphical User Interface (other than using the command line) required and no persistence. It's a **simple** program
- if a requirement is ambiguous, make a sensible assumption

Please deliver all artefacts, so the program and tests can be executed.