dpr.

Offline Coding Test – Interest Rates

Purpose

The purpose of the offline test is to give you an opportunity to show your opinions on how code should be written. It is a purposefully simple and isolated brief to give you opportunity to demonstrate your "ideal style".

We value simple, effective, readable code over "clever" solutions.

If you subsequently have a pair-programming exercise with our team you will be asked to discuss and extend your solution.

Instructions

- Please take no more than 60 mins on this solution (your time is valuable and this is not a test of how much code you can produce in a given time)
- The coding exercise should be completed using a TDD approach
- The submission should be in the form of a git repository (granularity of commits is your choice)
    - You can either zip and email the repo or point us to a publicly available repository (but if doing the latter please make sure there is nothing in the repository that identifies DPR).
    - If you aren't able to use git for any reason then just a zipped file system will be accepted
- You are free to use whatever tools, libraries, frameworks that you see fit.
- Ensure the solution contains a *README (txt or md)*which will tell the reviewer anything they need to build, run and modify the solution and to communicate any assumptions or design considerations that you have made.

Scenario

A Building Society is introducing a new savings account which pays a variable amount of interest depending on the balance of the account. The interest is calculated based on the following bands:

< £1,000 - 1%
£1,000 - < £5,000 - 1.5%
£5,000 - < £10,000 - 2%
£10,000 - < £50,000 - 2.5%
£50,000 + - 3%

Write code that, given a balance, will calculate the amount of interest (in pounds and pence) that should be paid, e.g. A balance of £1,001 would pay interest at 1.5% resulting in an interest rate of £15.02

Good luck and have fun!