

## Modulr Java Technical Test

Create an interface **AccountService** which declares;

- Check balance
- Withdraw an amount

Create **AccountServiceImpl** that is aware of the following accounts and balances

- Account number 01001, Balance 2738.59
- Account number 01002, Balance 23.00
- Account number 01003, Balance 0.00

Create **ATMServicImpl** and set it up to use the **AccountServiceImpl**. This should have the following behaviour;

- Replenish:
  - o Sets up the service with currency notes of denominations 5, 10, 20 and 50
- Check balance:
  - o Returns a formatted string to display
- Withdraw:
  - o Returns notes of the correct denominations
  - o Allow withdrawals between 20 and 250 inclusive, in multiples of 5
  - o Disburse smallest number of notes
  - o Always disburse at least one 5 note, if possible

Assume currency as GBP. It is acceptable to disregard currency for all operations.

Expected output;

1. Please submit a Java project with appropriate classes to solve the problem above
  - a Use either java version 7 or 8
  - b Good clean code with highest level of test coverage (Quality over Quantity)
  - c Include a small readme that lists out any assumptions you may have made or build or test instructions
  - d Appropriate use of a logging framework of your choice
2. Please tidy up your submission. Do not leave unused methods, commented code, spelling mistakes etc.
3. Please make every effort to complete the assessment before you submit it. A partial solution will not be enough
4. Please treat the submission as if it were to be released to production