

# Interest Rates

A bank wants to introduce a new bank account with variable rates of interest depending on how much money is in the account.

The interest rate bands are as follows:

£0 to £1000	1%
£1000 to £5000	2%
£5000+	3%

Write some code to work out the amount of interest someone should expect in pounds/pence for a given amount in the account.

For example: how much interest should I receive if I have £500 in the account (the answer is £5, i.e. 1% of £500).

## Extension

The account is a success and the bank would like to extend it to offer different bands to different customers. For example, customers who have been with the bank may be offered higher rates.

How would we go about implementing a system that allows for dynamically specified bands?