

This test comprises three questions. Each should be created in a separate repository, uploaded to github and shared with github users:

TimBashford

michaeldacey

QUESTION ONE

Follow these steps exactly. You will be marked according to how precisely you follow these steps.

- 1) Create a new private remote repository (on github) named “question1”. Do not initialise it.
- 2) Create a new local repository. Initialise it.
- 3) Create a file named c1master.txt containing the text “This file was created in commit 1 on the master branch”.
- 4) Commit the file to your local repository.
- 5) Push your local repository to the remote repository. Remember: you will need to configure this.
- 6) Add a readme to your project through the github interface, i.e. the menu that looks like this:

Help people interested in this repository understand your project by adding a README.

Add a README

Add some text to your readme – you can decide what it says.

- 7) Create a new branch named “featurebranch”
- 8) In the master branch, in the file c1master.txt, add a new line below the first which says “This line was added in commit 2 on the master branch.”
- 9) In the featurebranch branch, in the file c1master.txt, add a new line below the first which says “This line was added in commit 2 on the feature branch.”
- 10) Merge featurebranch into master. All 3 lines in the file should be preserved in the merge.
- 11) Push **both branches** to github. Remember... we added that readme to our project earlier, so the local and remote repositories might not be synced.

QUESTION TWO

You will find a remote repository hosted at <https://github.com/TimBashford/question2>

This repository contains some Java code which currently does not work. You are required to:

- 1) Fork the repository to your own profile.
- 2) Perform the necessary steps to fix and complete the code (read the comments).
 - a. Checkout your remote repository.
 - b. Fix the code.
 - c. Commit and push any changes back to the remote repository.

You might consider working in branches. E.G. you could consider a bugfixing branch and a code completion branch.

QUESTION THREE

Build a small currency conversion application for Pounds, Euros and Dollars. You may use the following conversions:

£1 = \$1.25

£1 = €1.15

€1 = \$1.10

Develop this application in Java. You should allow users to enter a currency and an amount, then display the value of that currency in the other two.

Create a new Github repository for this problem. As you work on it, create appropriate commits, consider any useful branches.

Correct use of git is far more important than a perfectly working solution.

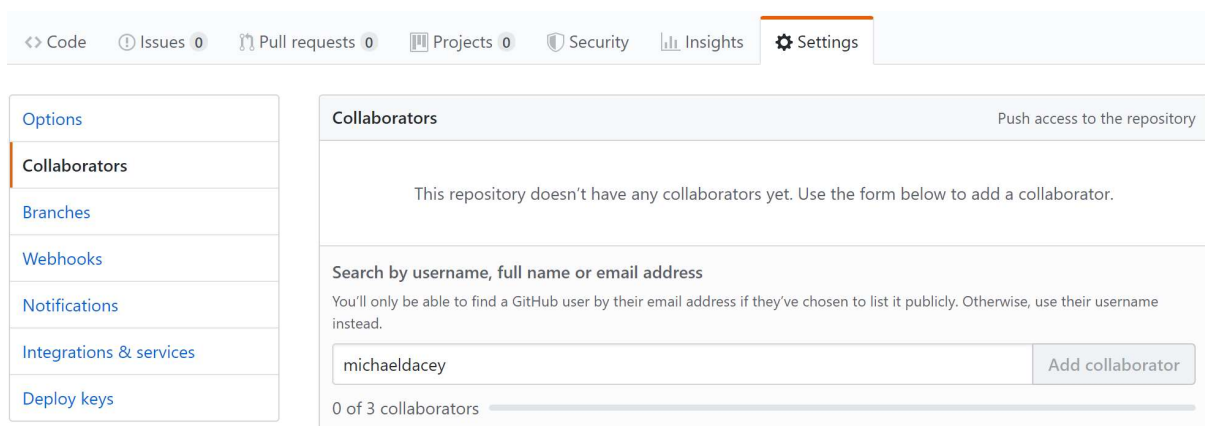
END

Make sure you share both repositories with Tim and Mike once you're done.

For each repository, click "Settings" -> Collaborators -> Add:

TimBashford

Michaeldacey



The screenshot shows the GitHub repository settings page for a repository named "Michaeldacey". The "Settings" tab is selected in the top navigation bar. On the left sidebar, the "Collaborators" option is highlighted. The main content area is titled "Collaborators" and includes a link to "Push access to the repository". Below this, a message states: "This repository doesn't have any collaborators yet. Use the form below to add a collaborator." A search bar is provided with the placeholder text "Search by username, full name or email address". Below the search bar, a note explains: "You'll only be able to find a GitHub user by their email address if they've chosen to list it publicly. Otherwise, use their username instead." The search bar contains the text "michaeldacey". To the right of the search bar is an "Add collaborator" button. At the bottom, a progress bar shows "0 of 3 collaborators".