## **Unit testing**

## The tests:

For this stage we will test the 'authorise', 'create personal details', 'read personal details' and 'amend personal details' functionalities of the program. For this, we will need to test:

- Whether or not the user is authorised to perform different actions depending on their position in the company
- Whether or not details can be read
- Whether or not documents can be created
- Whether or not details can be amended
- Checking amended details are updated in the database

## Issues encountered:

Issue	Fix
The createPersonalDetails method is allowing to create records for employees that already exist. The system is expected to print an error message, but instead it continued prompting the user for details. This is a logical error and we suspect that it may be to do with the ordering of our switch statements.	Found that the checkExists() method was not being called in the right order. Fixed the order and it is working fine.
The appropriate actions are not executing when the user types in the corresponding numbers.	There were a few misspellings in the switch statement. Changed the spellings.
The system is prompting the user to amend details again like it is supposed to when the user cancels during the amendPersonalDetails() method, however this time the details are not being stored in the database when the user confirms the new changes.	Fixed. A Boolean value had not changed to allow the creation of a new record.

All tests have passed:

The final iteration of the application for stage 4 passes all the JUnit tests from stage 3 and the present section and as such is ready for submission.