Workshop 10 – Unit and integration testing

**This workshop is worth 2.5%**

**You must demonstrate your completed workshop to your tutor in your lab to receive the marks.**

In this week's lab you'll be adding integration tests to the last week's lab and conducting some unit test to a simple node project by using mocha

**Part A**

**Task 1** – Installing mocha

Using last week's lab project and the instructions in the lecture slides install mocha.

**Task 2** – Creating an integration test

Add a set of test cases for each route that pass. Each route should have at least 2 asserts.

**Task 3** – Adding test cases that fail

Create a secondary set of test cases for each route that fail

**Task 4** – Commit you changes to git

**Part B**

**Task 5** – setting up unit tests

Create a new node project and install mocha.

Create a file called linearPoint.js. In this file export a function." This function should take 3 inputs m, x and c and return the result of m\*x+c

**Task 6** – Making unit tests

In your unit test file import the function from "linearPoint.js" and create a set of test cases that test the function with the following data:

|  |  |  |  |
| --- | --- | --- | --- |
| M | X | C | Expected result |
| 2 | 1 | 4 | 6 |
| 2 | 0 | 4 | 4 |
| 2 | -1 | 4 | 2 |

All test cases must pass