IT7320 – Software Development and Testing

Assignment 3

Jenkins

*Compiled September 2018*

*Aleisha Perry - 2115039*

For

*Chalinor Baliuag*

*Due Date: Week 11, Trimester 2, 2018*

# 

Contents

[Part 1 2](#_Toc525135858)

[Using Mockito 2](#_Toc525135859)

[Class or Interface 3](#_Toc525135860)

[Appendix A 4](#_Toc525135861)

[GitHub 4](#_Toc525135862)

Table of Figures

[Figure 1 - Implementation class code for computeTax() method 2](#_Toc525135863)

[Figure 2 - Test runner shows red without a mock object in test case 2](#_Toc525135864)

[Figure 3 - Implementing a mock object for the interface 2](#_Toc525135865)

[Figure 4 - Test runner shows green with a mock object in test case 3](#_Toc525135866)

# Part 2

## Using Jenkins

1. *What help/convenience does Jenkins give to your development and testing processes?*

Jenkins allows testing to take place from a remote location over the internet. It also

1. *Identify some advantages when implementing continuous integration using Jenkins.*

* Installation is relatively easy compared to other software that provides continuous integration services
* Clearly see if a build has passed or any of the alternatives
* Provides a command line results window to check where the tests have gone wrong

1. *Now create a simple Dynamic Web Application in Maven and link that to Jenkins.*
2. *Repeat the necessary steps to configure your project in Jenkins.*
3. *Link your Jenkins and Maven project to your GitHub and provide the link to this.*

# Appendix A

## GitHub

GitHub was used for the duration of this assignment in order to submit assignment in stages (Parts 1 - 4).

**Profile - Aleisha**

Remote Repository main branch (owner) link: <https://github.com/kiwiFudge/IT7320_Assignment3>