ETSA02-ADM-LAB2

Lab 1
Automated testing
for Robocode

Version 0.1 approved

Prepared by Markus Borg
Dept. of Computer Science, Lund University

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Revision History

Name	Date	Reason For Changes	Version
Markus Borg	2017-12-11	Initial draft.	0.1

1 Introduction

Learn to write Junit test cases for Robocode.
Organize test cases in suites.
Run Junit from Eclipse.
Unit testing.
System testing.
Testing of quality requirements.

2 Before the lab

Read up on the basics of unit testing.
Think about what testing a robot means.
Download the latest Robot testing plugin (1.9.3.0) from http://robo-code.blogspot.se/
Add robocode.testing.jar to the Java build path in Eclipse
Create a run configuration for JUnit in Eclipse
Add -Drobocode.home=<PATH TO ROBOCODE> as an argument to the VM
Try running JUnit tests

3 At the lab

Select your robot class in the Eclipse package explorer. Right-click and select new JUnit test case. Create the new test case. There are several naming conventions, e.g., using the same name as the class under test followed by the suffix 'Test' and 'Test' as prefix for all methods. Software-under-test is the normal name for the object to test, here we use bot-under-test.

Inspiration: https://ics613s13.wordpress.com/

Build a robot using maven: https://github.com/bretkikehara/robocode-bki-hunter

4 After the lab