Lab report

Weights We are using QUB's standard Mark Schemes And Classifications: www.qub.ac.uk/directorates/AcademicStudentAffairs/ExaminationsandAssessment/MarkSchemesandClassifications/ Exceptional 1st 1st 2.2 3rd Marginal Fail Fail 100 xceptional and exemplary work : las carefully followed the lab document and module knowledge from the lectures and has Very good, comprehensive answer showing: Failing answer: noe above that level
Showing thorough and systematic understanding of module content.

Clear grasp of issues involved, with evidence of innovative use and original use of learning Outstanding answer: Good answer showing: •Has met the requirements of the lab document and module ·Little relevant material and/or inaccurate Has carefully followed the lab document and Good knowledge and understanding of Adequate answer: Nil Submission; or, answer meeting none knowledge from the lectures

•Very good knowledge and understanding of module content. answer or incomplete. module knowledge from the lectures the module content. Lacking methodological application. of the necessary requirements with: Disorganised. Showing thorough and Methodological riggur. ·Reasonably well argued. ·Adequately argued. ·No material of value to the guestion •Well-argued answer. Largely irrelevant material and Largely descriptive or narrative in focus. ·Basic understanding and knowledge. •Some evidence of originality and critical judgement. misunderstanding. No evidence of methodology. ·Critical judgement. Methodological application is not Gaps or inaccuracies but not damaging. No recognition of the question. ·Sound methodology. ·Use of additional learning resources. consistent or thorough. High critical judgement and onfident grasp of complex issues. Critical judgement and some grasp of complex issues. •Minimal or no relevant material (34% - 0%) (79% – 70%) (69% - 60%) (59% - 50%)(49% - 40%)(39% - 35%)(100% - 80%)Introduction Test plan for white-box testing Design of your white-box test-cases: Description of how you have designed additional test case (test methods) to improve code coverage for methods of claases: Range and DataUtilities Showing that the coverage threshold is achieved for each of the two classes (Range and DataUtilities) Output of test-suite execution (there should be no "errors", given by the test suite, in the JUnit output) Comparison of black-box testing and white-box testing. Usnig examples and direct experiences learned in your labs 2 and 3, and also insights from the lecture discussions Manual data-flow coverage analysis for Range.constrain() method Manual mutation analysis (testing) Discussion of Teamwork and division of work (should be detailed) Discussion of Difficulties encountered, challenges overcome, and technical lessons learned (should be detailed) Using the provided template Word file, writing quality, and general formatting of the report

JUnit test-suite test-code

	Using GitHub properly: The GitHub repo ONLY includes the Java code files that the lab document has asked to be developed, and not the entire project folders Both students should have comitted to the project files -Meaningful GitHub account IDs have been chosen, including student name, to ensure that it is easy to identify who has committed what. Account IDs are not cyphered strings such as xyz_, ghost2020, etc. -We should see regular commits to the GitHub repo, during the duration of lab time period -Collaborator" access given to lab-work graders? We need to be able to leave comments in your code																				
	Quality of test-code: -Readability and understandability of test-code (Are the JUnit test methods easy to follow, through commenting or style etc?) -Have the naming conventions of test methods, variables, etc, proposed by the lab doc, been properly followed?																				
15	-Exception handling h	as been used properly	y in test-code																		