Testing

To test the program, I am going to put in various possible inputs to the program and see if the outputs match what is expected. I will also list any possible fixes, and whether or not I have implemented them.

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| **Input** | **Expected Output/Response** | **Actual Output/Response** | **Possible fix** | **Fix implemented?** |
| Any topic, all wrong answers | Score of 0, scores file reads 0. | Expected |  |  |
| Any topic, Calculation questions have equations in wrong format | Marked as incorrect | Expected | Explain correct answer syntax in text field so user avoids this. | Yes |
| Any topic, leave all answers blank | All Calculation questions marked incorrect. Some Multiple Choice questions are correct. | Expected |  |  |
| Any topic, all correct answers | Given 10 points. Score saved in text file as 10. | Expected |  |  |
| Do not change name field | Name stored as “Enter your name” | Expected |  |  |
| Blank name field | Name stored as blank | Expected | If loop to save name as “Student” | Yes |
| Run test, back to menu, click test again | Runs test again. | “ArrayIndexOutOfBoundsException”  (See screenshot below) | Reset variable questionNo to 0 upon test starting | Yes |
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