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| **Test No** | **Objective tested** | **Test Data and description** | **Test Type** | **Expected Results** | **Actual Results** | **Comments** |
| P6 | **P6**.1 Saving to a file  **P6**.2 Generate random numbers in the label  **P6**.3 Have four different options for user  **P6**.4 Have a working hint button | **P6**.1 I can save to a file successfully with the User’s name and other details  **P6**.2. When the user answers different question; they won’t be the same one every single time  **P6**.3 User can choose between Multiplication, Subtraction, Addition and division.  **P6**.4 The hint button can identify which question is being asked. | **Objectives Test** | **P6**.1 Expected to save without any problems  **P6**.2 Expected to see two different integers each time  **P6**.3 Expected for each button the user pressed then the corresponding question will appear  **P6**.4 Expected to see the hint button be able to tell the difference between questions and work. | **P6**.1 Worked as expected  **P6**.2 Worked as expected  **P6**.3 Worked as expected  **P6**.4 Worked as expected |  |
| P7 | **P7**.1 Multiplication Button  **P7**.2 Submit Button  **P7**.3 Next Question Button  **P7**.4 Back Button | **P7**.1 I can press the multiplication button and the multiplication questions will open  **P7**.2 Tried using the submit button and the answer will be checked  **P7**.3 When next question is pressed then a new question will appear  **P7**.4 When the back button is pressed then it will take the user back to the menu. | **Functional Test** | **P7**.1 Expected the button to work perfectly  **P7**.2 Expected the submit button to take all the values and the answer will be checked  **P7**.3 Expected the Next Question button to work perfectly and create the question  **P7**.4 Expected the back button to take the user back to the menu | **P7**.1 Worked as expected  **P7**.2 Worked as expected  **P7**.3 Worked as expected  **P7.**4 Worked as expected |  |
| P8 | **P8**.1 Submitting with no answer  **P8**.2 Switching Questions  **P8**.3 Entering special characters when submitting  **P8**.4 Going back to the menu to reset your score | **P8**.1 When the user submits without an answer  **P8**.2 When the user switches from one frame to another; for example, the user could be answering a question in the division section however they switch to a multiplication question  **P8**.3 The user enters characters such as: \*£@  **P8**.4 The user backs out the frame to the menu to reset their score because its bad. | Robustness Test | **P8**.1 The program has validation to stop this; so, the user will be met with an error message telling them to enter something  **P8**.2 Expected to change the question with no problem  **P8**.3 Expected to be met with an error message telling the user to type in an integer  **P8**.4 The score stays the same | **P8**.1 Worked as expected  **P8**.2 Worked as expected  **P8**.3 Worked as expected  **P8.**4 Worked as expected |  |
| P9 | **P9**.1 Do as many saves to the program as possible  **P9**.2 Spam Next Question as much as possible | **P9**.1 The user presses save as much as they can  **P9**.2 The user presses Next Question as much as they can until they get an easy question | Volume test | **P9**.1 The program should not allow the user to keep doing this and you can only save once you’ve answered 10 questions  **P9**.2 The program should allow this. | **P9**.1 Worked as expected  **P9**.2 The program allows this however it adds it as a question answered wrong because the question number goes up however the score doesn’t. |  |