**Set of Test Data**

Various scenarios to ensure that the program works as expected – all scenarios met the expected outcomes.

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| Test Case | Description | Expected Outcome |
| Valid Name | Enter a valid name (e.g., "John"). | The program should start the test successfully and allow the user to complete it. |
| Empty Name | Leave the name entry blank. | The program should display a message warning the user to enter their name and prevent the test from starting. |
| Special Characters in Name | Enter a name with special characters (e.g., "!@#$"). | The program should still accept it as valid since no strict character validation is in place, but this can be improved for future development. |
| Correct Key Press | During the test, press the correct key for the displayed letter. | The letter should be marked as correct, and the next letter should appear. |
| Incorrect Key Press | During the test, press an incorrect key for the displayed letter. | The letter should be marked as missed, and the next letter should appear. |
| End Test Early | Click "End Test Early" during the test. | The test should end, and results should be displayed up to the point the test was ended. |
| Load Previous Results (Empty File) | No previous results saved in test\_results.txt. | The program should display a message saying, "No previous results found." |
| Load Previous Results (With Data) | Previous results exist in test\_results.txt. | The program should load and display all previous test results correctly. |
| Calculate Total Results (Empty File) | No previous results in the test\_results.txt file. | The program should display a message saying, "No previous results found." |
| Calculate Total Results (With Data) | Previous results exist in test\_results.txt. | The program should calculate and display the total correct and total attempted answers correctly. |
| Read User Manual | The user manual file user\_manual.txt is present and readable. | The manual should be displayed in a new window. |

When all questions are answered correctly

A screenshot of a computer

Description automatically generated

When five answers are incorrect

A screenshot of a computer

Description automatically generated

When no answers are correct

A screenshot of a computer

Description automatically generated

When there are no previous results in test\_results.txt

A screenshot of a computer error message

Description automatically generated

Previous results loads correctly (with data)

A screenshot of a computer screen

Description automatically generated

User manual loads correctly

A screenshot of a computer

Description automatically generated