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| **Project Name**: Calculator | |
| **Test Case** | |
| **Test Case ID**: 15 | **Test Designed by**: Alan |
| **Test Priority (Low/Medium/High)**: Med | **Test Designed date**: 2023.10.22 |
| **Module Name**: x! button module; | **Test Executed by**: Alan |
| **Test Title**: User presses the x! button; | **Test Execution date**: 2023.10.22 |
| **Description**: User presses the x! (Factorial) button and expects to calculate the factorial of a number. |  |
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| **Pre-conditions**: User has entered a non-negative integer. | |
| **Dependencies**: | |

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| **Step** | **Test Steps** | **Test Data** | **Expected Result** | **Actual Result** | **Status (Pass/Fail)** | **Notes** |
| 1 | User enters a non-negative integer; | Enter a non-negative integer (e.g., 5) | The entered integer is displayed. | The entered integer (e.g., 5) is displayed on the calculator. | Pass |  |
| 2 | User presses the x! button; | x! | The factorial operation is performed. | The factorial operation is performed, and the result (e.g., 120) is displayed. | Pass |  |
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| **Post-conditions:** |
| User has successfully used the x! button to calculate the factorial of a non-negative integer, and the test case is passed. |