|  |  |
| --- | --- |
| **Project Name**: Calculator | |
| **Test Case** | |
| **Test Case ID**: 121 | **Test Designed by**: Alan |
| **Test Priority (Low/Medium/High)**: Med | **Test Designed date**: 2023.10.22 |
| **Module Name**: Programmer Calculator Mixed Operations module; | **Test Executed by**: Alan |
| **Test Title**: Mixed operation (multiplication and addition) of binary numbers within 6 steps; | **Test Execution date**: 2023.10.22 |
| **Description**: User inputs binary numbers and performs mixed operations of multiplication and addition using the Programmer Calculator in binary mode. |  |
|  |  |
|  |  |
| **Pre-conditions**: Programmer Calculator is set to binary mode. | |
| **Dependencies**: | |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Step** | **Test Steps** | **Test Data** | **Expected Result** | **Actual Result** | **Status (Pass/Fail)** | **Notes** |
| 1 | User enters the first binary number; | Enter a valid binary number (e.g., 101011) | The entered binary number is displayed. | The entered binary number (e.g., 101011) is displayed on the calculator. | Pass |  |
| 2 | User presses the "\*" button to select multiplication; | \* | Multiplication operation is selected. | Multiplication operation is selected. | Pass |  |
| 3 | User enters the second binary number for multiplication; | Enter another valid binary number (e.g., 110100) | The entered binary number is displayed. | The entered binary number (e.g., 110100) is displayed on the calculator. | Pass |  |
| 4 | User presses the "+" button to select addition; | + | Addition operation is selected. | Addition operation is selected. | Pass |  |
| 5 | User enters the third binary number for addition; | Enter a third valid binary number (e.g., 100111) | The entered binary number is displayed. | The entered binary number (e.g., 100111) is displayed on the calculator. | Pass |  |
| 6 | User presses the "=" button to calculate the result; | = | Mixed operations (multiplication and addition) are performed, and the result is displayed in binary. | Mixed operations (multiplication and addition) are performed, and the result (e.g., 011011) is displayed in binary. | Pass |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

|  |
| --- |
| **Post-conditions:** |
| User has successfully performed mixed operations (multiplication and addition) of binary numbers using the Programmer Calculator within 6 steps, and the test case is passed. |