**TEST PLAN**

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| **ID** | **DESCRIPTION** | **PRE-CONDITION** | **EXPECTED INPUT** | **EXPECTED OUTPUT** | **ACTUAL OUTPUT** |
| **HL\_03\_LL\_01\_IT\_01** | Addition of two numbers | The number must be positive | Any Number | Result of the operation |  |
| **HL\_03\_LL\_02\_IT\_02** | Subtraction of two numbers | The number must be positive | Any Number | Result of the operation |  |
| **HL\_03\_LL\_03\_IT\_03** | Multiplication of two numbers | The number must be positive | Any Number | Result of the operation |  |
| **HL\_03\_LL\_04\_IT\_04** | Division of two numbers | The number must be positive | Any Number | Result of the operation |  |
| **HL\_03\_LL\_05\_IT\_05** | Square of a number | The number must be positive | Any Number | Result of the operation |  |
| **HL\_03\_LL\_06\_IT\_06** | Cube of a number | The number must be positive | Any Number | Result of the operation |  |
| **HL\_03\_LL\_01\_UT\_01** | Testing for addition of two numbers | Two numbers are positive and integer numbers | 4,8 | 12 |  |
| **HL\_03\_LL\_01\_UT\_01** | Testing for addition of two numbers | Two numbers are positive and float | 4.2,8.2 | 12.4 |  |
| **HL\_03\_LL\_01\_UT\_01** | Testing for addition of two numbers | Two numbers are negative and integer numbers | -4,-8 | -12 |  |
| **HL\_03\_LL\_01\_UT\_01** | Testing for addition of two numbers | Two numbers are negative and float values | -4.3,-8.5 | -12.8 |  |
| **HL\_03\_LL\_02\_UT\_02** | Testing for subtraction of two numbers | Two numbers are positive and integer numbers | 4,8 | -4 |  |
| **HL\_03\_LL\_02\_UT\_02** | Testing for subtraction of two numbers | numbers are positive and float values | 5.2,1.2 | 4.0 |  |
| **HL\_03\_LL\_02\_UT\_02** | Testing for subtraction of two numbers | Two numbers are negative and integer | -4,-3 | -1 |  |
| **HL\_03\_LL\_02\_UT\_02** | Testing for subtraction of two numbers | Two numbers are negative and float values | -5,-6 | 1.0 |  |
| **HL\_03\_LL\_03\_UT\_03** | Testing for multiplication of two numbers | Two numbers are positive and integer | 2,3 | 6 |  |
| **HL\_03\_LL\_03\_UT\_03** | Testing for multiplication of two numbers | Two numbers are positive and float | 1.0,5.0 | 5.0 |  |
| **HL\_03\_LL\_03\_UT\_03** | Testing for multiplication of two numbers | Two numbers are negative and integer | -4, -2 | 8 |  |
| **HL\_03\_LL\_03\_UT\_03** | Testing for multiplication of two numbers | numbers are negative and float | -5.0, -3.0 | 15.0 |  |
| **HL\_03\_LL\_04\_UT\_04** | Testing for division of two numbers | numbers are positive and integer | 16,4 | 4 |  |
| **HL\_03\_LL\_04\_UT\_04** | Testing for division of two numbers | numbers are positive and float | 24.3,3.0 | 8.1 |  |
| **HL\_03\_LL\_04\_UT\_04** | Testing for division of two numbers | One number is negative and integer | -32, 8 | -4 |  |
| **HL\_03\_LL\_04\_UT\_04** | Testing for division of two numbers | One number is negative and float | -32.16, 8.2 | -3.921 |  |
| **HL\_03\_LL\_04\_UT\_04** | Testing for division of two numbers | Denominator is 0 | 25,0 | error |  |
| **HL\_03\_LL\_05\_UT\_05** | Testing for square of a number | If number is positive and integer | 2 | 4 |  |
| **HL\_03\_LL\_05\_UT\_05** | Testing for square of a number | If number is positive and float | 2.4 | 5.76 |  |
| **HL\_03\_LL\_05\_UT\_05** | Testing for square of a number | If number is negative and integer | -4 | 16 |  |
| **HL\_03\_LL\_05\_UT\_05** | Testing for square of a number | If number is negative and float | -3.2 | 10.24 |  |
| **HL\_03\_LL\_06\_UT\_06** | Testing for cube of a number | If number is positive and integer | 3 | 27 |  |
| **HL\_03\_LL\_06\_UT\_06** | Testing for cube of a number | If number is positive and float | 3.2 | 32.762 |  |
| **HL\_03\_LL\_06\_UT\_06** | Testing for cube of a number | If number is negative and float | -3 | -27 |  |
| **HL\_03\_LL\_06\_UT\_06** | Testing for cube of a number | If number is negative and float | -3.2 | -32.762 |  |
| **HL\_03\_LL\_06\_UT\_06** | Testing for Square root of a number | If number is positive | 64 | 8 |  |
| **HL\_03\_LL\_06\_UT\_06** | Testing for cube root of a number | If number is positive | 64 | 4 |  |