# **Test Plan:**

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| **ID** | **Description** | **Expected input** | **Expected output** | **Actual output** | **Result** |
| T1 | Addition | add(10,23) | 33 | 33 | Passed |
| T2 | Subtraction | subtract(11,1) | 10 | 10 | Passed |
| T3 | Multiplication | multiply(2,5) | 10 | 10 | Passed |
| T4 | Division | divide(10,2) | 5 | 5 | Passed |
| T5 | Percentage | perc(19,100) | 19 | 19 | Passed |
| T6 | Modulo Division | modulodivision(4,2) | 0 | 0 | Passed |
| T8 | Even/Odd | evenodd(4) | 1 | 1 | Passed |
| T7 | Prime | isprime(2) | 1 | 1 | Passed |
| T9 | Factorial | factorial(5) | 120 | 120 | Passed |
| T10 | Square Root | sq(4) | 2 | 2 | Passed |
| T11 | Cube Root | cu(8) | 2 | 2 | Passed |
| T12 | Power | power(2,4) | 16 | 16 | Passed |
| T13 | Sine | sin(90) | 1 | 1 | Passed |
| T14 | Cosine | cosine(90) | 0 | 0 | Passed |
| T15 | Tangent | tangent(45) | 1 | 1 | Passed |
| T16 | Hyperbolic Sine | sineh(1) | 1.175201 | 1.175201 | Passed |
| T17 | Hyperbolic Cosine | cosineh(1) | 1.543080 | 1.543080 | Passed |
| T18 | Hyperbolic Tangent | tangenth(1) | 0.761594 | 0.761594 | Passed |
| T19 | Right Shift | right\_shift(10,2) | 2 | 2 | Passed |
| T20 | Left Shift | left\_shift(10,2) | 40 | 40 | Passed |
| T21 | Bitwise AND | bit\_and(6,3) | 2 | 2 | Passed |
| T22 | Bitwise OR | bit\_or(10,10) | 10 | 10 | Passed |
| T23 | Bitwise XOR | bit\_xor() | 2,2 | 0 | Passed |
| T24 | Bitwise Complement | bit\_complement(9) | -10 | -10 | Passed |
| T25\_01 | BMI | BMI(75,1.78) | 23 | 23 | Passed |
| T25\_02 | Age Calculator | age\_calculator(7,12,2020,26,11,1998) | 22 | 22 | Passed |
| T25\_03 | Blood Pressure | blood\_pressure(100) | 1 | 1 | Passed |
| T25\_04 | Blood Sugar | blood\_sugar(145) | 0 | 0 | Passed |
| T25\_05 | BPM | BPM(72) | 1 | 1 | Passed |
| T25\_06 | Pythagoras | pythogoras(4,3) | 5 | 5 | Passed |
| T25\_07 | Pound to kilogram | pound\_to\_kg(163) | 73 | 73 | Passed |
| T25\_08 | Mile to kilometre | mile\_to\_km(7) | 11 | 11 | Passed |
| T25\_09 | Celsius to Fahrenheit | celcius\_to\_fahrenheit(28) | 82 | 82 | Passed |
| T25\_10 | Inch to Cm | inch\_to\_cm() | 23 | 58 | Passed |
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