# Test Plan

## High Level Test Plan

Table 4 High Level Test Plan

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| Test Case ID | Test Scenario | Test Steps | Test Data | Expected Results | Actual Results |
| HLTP10 | Test whether the trigonometric functions are working correctly. | 1. Enter the inputsto test the sine, cosine and tangent functions. | 1. Sin90 2. Cos90 3. Tan90 | 1. 1 2. 0 3. 1 |  |
| HLTP20 | Test whether the hyperbolic functions are working correctly. | 1. Enter the inputs to test the sinh, cosh, tanh functions. | 1. 0 2. 0 3. 0 | 1. 0 2. 0 3. 0 |  |
| HLTP30 | Test whether the temperature conversion functions are working correctly | 1. Enter the input to test the celsius\_fahrenheit,fahrenheit\_kelvin,fahrenheit\_celsius,celsius\_kelvin,kelvin\_celsius,fahrenheit\_kelvin functions | 1.celsius\_fahrenheit(100)  2.fahrenheit\_kelvin(100)  3.fahrenheit\_celsius(100)  4.celsius\_kelvin(100)  5.kelvin\_celsius(100)  6.fahrenheit\_kelvin(100) | 1. 212 2. -279 3. 37.7 4. 373 5. -173 6. 310 |  |

## Low Level Test Plan

Table 5 Low Level Test Plan

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| Test Case ID | Test Scenario | Test Steps | Test Data | Expected Results | Actual Results |
| LLTP11 | Test whether the sine function is working correctly. | 1. Enter the input for sine function. | 1. 90 2. 0 | 1. 1 2. 0 |  |
| LLTP12 | Test whether the cosine function is working correctly. | 1. Enter the input for cosine function. | 1. 0 2. 90 | 1. 1 2. 0 |  |
| LLTP13 | Test whether the tangent function is working correctly. | 1. Enter the input for tangent function. | 1. 90 2. 45 | 1. 1 2. 1 |  |
| LLTP21 | Test whether the hyperbolic sine function is working correctly. | 1. Enter the input for hyperbolic sine function. | 1. 0 2. 7 | 1. 0 2. 548.316123 |  |
| LLTP22 | Test whether the hyperbolic cosine function is working correctly. | 1. Enter the input for hyperbolic cosine function. | 1. 0 2. 1 | 1. 0 2. 1.54308063 |  |
| LLR23 | Test whether the hyperbolic tangent function is working correctly. | 1. Enter the input for hyperbolic tangent function. | 1. 0 2. 2 | 1. 0 2. 0.96402758 |  |