# 1. TEST PLAN

## 1.1.High level and Low level Test plan

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| --- | --- | --- | --- | --- | --- |
| **ID** | **Description** | **Precondition** | **Expected I/P** | **Expected O/P** | **Actual O/P** |
| H\_01\_L\_01 | Input1 operand | add/subtract/multiply/divide/factorial/squareroot are chosen | Input 1 operand only | Enter 1 operand | Enter 1 operand |
| H\_01\_L\_02 | Input2 operand | Sine/cosine/tangent/cosec/sec/cot are chosen | Input 2 operand only | Enter 2 operand | Enter 2 operand |
| H\_01\_L03 | Input3  Operand | Prime/armstrong/ are chosen | Input3  Operand only | Enter3  operand | Enter3  operand |
| H\_02 | Perform arithmetic operations | Add/subtract/division/multiplication/factorial chosen | Input operands | Correct result obtained | Correct result obtained |
| H\_02\_L\_01 | Perform add | Chosen add and input 2 operand | 10,20 | 30 | 30 |
| H\_02\_L\_02 | Perform add | Chosen add and input 2 operand | 750,7500 | 8250 | 1500 |
| H\_02\_L\_03 | Perform subtraction | Chosen subtract and input 2 operand | 0,3 | -3 | -3 |
| H\_02\_L\_04 | Perform subtraction | Chosen subtract and input 2 operand | 1000,900 | 100 | 1 |
| H\_02\_L\_05 | Multiply | Chosen Multiply and input 2 operand | 1,0 | 0 | 0 |
| H\_02\_L\_06 | Multiply | Chosen Multiply and 2 operand | 2,5 | 10 | 2 |
| H\_02\_L\_07 | Divide | Chosen divide and 2 operand | 1,0 | Undefined | 0 |
| H\_02\_L\_08 | Divide | Chosen divide and 2 operand | 2,2 | 1 | 3 |
| H\_02\_L\_08 | Factorial | Chosen factorial and 1 operand | 5 | 120 | 120 |
| H\_03 | Perform check operations | Prime/armstrong/even check chosen | Input operand | Correct result obtained | Correct result obtained |
| H\_03\_L\_01 | Prime check | Chosen prime and 1 operand | 7 | 0 | 0 |
| H\_03\_L\_02 | Armsgstrom check | Chosen Armstrong and 1 operand | 153 | 1 | 1 |
| H\_04\_L\_01 | Sine function | Chosen sine and 1 operand | 90 | 1 | 1 |
| H\_04\_L\_02 | Cosine function | Chosen cosine and 1 operand | 45 | 0.707107 | 0.707107 |
| H\_04\_L\_03 | Tangent function | Chosen tan and 1 operand | 45 | 1 | 1 |
| H\_04\_L\_04 | Cosec function | Chosen cosec and 1 operand | 45 | 1.414214 | 1.414214 |
| H\_04\_L\_05 | Sec function | Chosen sec and 1 operand | 0 | 1 | 1 |
| H\_04\_L\_06 | Cot function | Chosen cot and 1 operand | 90 | 0 | 0 |