**REQUIREMENTS:**

**HIGH LEVEL REQUIREMENTS:**

|  |  |
| --- | --- |
| ID | DESCRIPTION |
| HL\_01 | Check for inputs |
| HL\_02 | Determine the converting |
| Hl\_03 | Check for different operations |
| HL\_04 | Check for proper expression |

**LOW LEVEL REQUIREMENTS:**

|  |  |
| --- | --- |
| ID | DESCRIPTION |
| LL\_01 | Only one operator between inputs |
| LL\_02 | Perform addition operation |
| LL\_03 | Perform subtraction operation |
| LL\_04 | Perform division operation |
| LL\_05 | Perform multiplication operation |
| LL\_06 | Perform hexa-decimal operation |
| LL\_07 | Perform currency conversion |
| LL\_08 | Modulus Operations |

**TESTING:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Description | Precondition | Expected input or state | Expected output or State | Actual output |
| T\_01\_HL\_03 | Check whether the calculator is taking inputs or not | Input is interpretable | Any numbers for performing operations | Specific output for the given input |  |
| T\_02\_LL\_02 | Check the arithmetic operations are working properly | Giving all the arithmetic operations | Performing arithmetic operations like +, \* ,-, / | Accurate output for the arithmetic operations on variables |  |
| T\_03\_LL\_02 | Check the addition operation on variables a and b | Perform addition operation between a and b | a=2  b=3 | 5 |  |
| T\_04\_LL\_02 | Check the subtraction operation | Perform subtraction operation between a and b | a=5  b=2 | 3 |  |
| T\_05\_LL\_02 | Check the division operation | Perform division operation between a and b | a=10  b=2 | 5 |  |
| T\_06\_LL\_02 | Check the multiplication between two variables | Perform multiplication between a and b | a=2  b=5 | 10 |  |
| T\_07\_LL\_06 | Check whether the value is converting from hexadecimal to decimal | Giving hexadecimal value for converting into decimal value | Performing hexadecimal to decimal conversion | Converted value i.e. hexadecimal to decimal |  |
| T\_08\_LL\_07 | Check for the accurate conversion from one currency to other | Giving one currency value for conversion | Performing Conversion from DLR to INR  i.e a = 1 | 73.11 |  |
| T\_09\_LL\_08 | Convert the expression element into mod elements | Giving negative elements in the expression | 3-4 | 1 |  |