TEST PLAN

ID	DESCRIPTION	PRE-CONDITION	EXPECTED INPUT	EXPECTED OUTPUT	ACTUAL OUTPUT
HL_01_IT_01	Test Different properties of the given number	The number must be positive	Any Number	PASS/FAIL	
HL_02_IT_01	Test for the divisibility of number	The number must be positive	Any Number	Divisible	
HL_03_IT_01	Perform different operations	The number must be positive	Any Number	Result of the operation	
HL_01_LL_01_UT_01	Testing with a prime number	The number must be positive	1	The number is prime	
HL_01_LL_01_UT_02	Testing with a non- prime number	The number must be positive	48	The number is not prime	
HL_01_LL_02_UT_01	Testing with an Armstrong number	The number must be positive	153	The number is Armstrong	
HL_01_LL_02_UT_02	Testing with non-Armstrong number	The number must be positive	15	The number is not Armstrong	
HL_01_LL_03_UT_01	Testing with an even number	The number must be positive	2	The number is Even	
HL_01_LL_03_UT_02	Testing with an odd number	The number must be positive	5	The number is Odd	
HL_01_LL_04_UT_01	Testing with a palindrome number	The number must be positive	1551	The number is Palindrome	

HL_01_LL_04_UT_02	Testing with a number which is not a palindrome	The number must be positive	15	The number is not Palindrome	
HL_01_LL_05_UT_01	Testing with a number which is a power of 2	The number must be positive	4	The number is a power of 2	
HL_01_LL_05_UT_02	Testing with a number which is not a power of 2	The number must be positive	5	The number is not a power of 2	
HL_01_LL_06_UT_01	Testing with a Harshad number	The number must be positive	156	The number is Harshad	
HL_01_LL_06_UT_02	Testing with a non- Harshad number	The number must be positive	15	The number is not harshad	
HL_01_LL_07_UT_01	Testing with a perfect square	The number must be positive	25	The number is a perfect square	
HL_01_LL_07_UT_02	Testing with a number which is not a perfect square	The number must be positive	8	The number is not a perfect square	
HL_01_LL_08_UT_01	Testing with a perfect cube	The number must be positive	8	The number is a perfect cube	
HL_01_LL_08_UT_02	Testing with a number which is not a perfect cube	The number must be positive	5	The number is not a perfect cube	
HL_01_LL_09_UT_01	Testing with an automorphic number	The number must be positive	5	The number is automorphic	
HL_01_LL_09_UT_02	Testing with a non-automorphic number	The number must be positive	78	The number is not automorphic	

HL_02_LL_01_UT_01	Testing with a number divisible by 3	The number must be positive	6	The number is divisible by 3	
HL_02_LL_01_UT_02	Testing with a number not divisible by 3	The number must be positive	7	The number is not divisible by 3	
HL_02_LL_02_UT_01	Testing with a number divisible by 5	The number must be positive	25	The number is divisible by 5	
HL_02_LL_02_UT_02	Testing with a number not divisible by 5	The number must be positive	8	The number is not divisible by 5	
HL_02_LL_03_UT_01	Testing with a number divisible by 7	The number must be positive	49	The number is divisible by 7	
HL_02_LL_03_UT_02	Testing with a number not divisible by 7	The number must be positive	8	The number is not divisible by 7	
HL_03_LL_01_UT_01	Testing Addition	The number must be positive	15 12	27	
HL_03_LL_02_UT_01	Testing Subtraction	The number must be positive	48 5	43	
HL_03_LL_03_UT_01	Testing Multiplication	The number must be positive	5 6	30	
HL_03_LL_04_UT_01	Testing Division	The number must be positive	25 5	5	