**REQUIREMENTS**

**HIGH LEVEL REQUIREMENTS**

|  |  |
| --- | --- |
| **ID** | **DESCRIPTION** |
| **HL\_01** | Check for different properties of the number |
| **HL\_02** | Determine the divisibility |
| **HL\_03** | Perform different operations |

**LOW LEVEL REQUIREMENTS**

|  |  |
| --- | --- |
| **ID** | **DESCRIPTION** |
| **HL\_01\_LL\_01** | Determine whether the given number is prime |
| **HL\_01\_LL\_02** | Determine whether the given number is Armstrong |
| **HL\_01\_LL\_03** | Determine whether the given number is Odd or Even |
| **HL\_01\_LL\_04** | Determine whether the given number is a Palindrome |
| **HL\_01\_LL\_05** | Determine whether the given number is a power of 2 |
| **HL\_01\_LL\_06** | Determine whether the given number is a Harshad number |
| **HL\_01\_LL\_ 07** | Determine whether the given number is a perfect square |
| **HL\_01\_LL\_08** | Determine whether the given number is a perfect cube |
| **HL\_01\_LL\_09** | Determine whether the given number is an Automorphic number |
| **HL\_02\_LL\_01** | Determine whether the given number is divisible by 3 |
| **HL\_02\_LL\_02** | Determine whether the given number is divisible by 5 |
| **HL\_02\_LL\_03** | Determine whether the given number is divisible by 7 |
| **HL\_03\_LL\_01** | Perform addition operation |
| **HL\_03\_LL\_02** | Perform subtraction operation |
| **HL\_03\_LL\_03** | Perform multiplication operation |
| **HL\_03\_LL\_04** | Perform division operation |