# Test Plan

### **High Level Test Plan**

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| **ID** | **Description** | **Pre-Condition** | **Expected input** | **Expected Output** | **Actual output** |
| H01\_T01 | To test properties of numbers | Input number must be positive | Some real number | True or False |  |
| H02\_T02 | To do various operations with numbers | Input numbers must be positive | Some real number | Result of expression |  |

**Low Level Test Plan**

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| **ID** | **Description** | **Pre-Condition** | **Expected input** | **Expected Output** | **Actual output** |
| H01\_L01\_T01 | To check whether a number is positive | A number is taken as input | Some real number | True or False |  |
| H01\_L01\_T02 | To check whether a number is negative | A number is taken as input | Some real number | True or False |  |
| H01\_L02\_T03 | To check whether a number is prime | Input number must be positive | Some number | True or False |  |
| H01\_L02\_T04 | To check whether a number is Armstrong | Input number must be positive | Some number | True or False |  |
| H01\_L02\_T05 | To check whether a number is palindrome | Input number must be positive | Some number | True or False |  |
| H01\_L02\_T06 | To check whether a number is Perfect square | Input number must be positive | Some number | True or False |  |
| H01\_L03\_T07 | To check whether given number is power of two | Input number must be positive | Some number | True or False |  |
| H01\_L04\_T08 | To check whether given number is even | Input number must be positive | Some number | True or False |  |
| H01\_L04\_T09 | To check whether given number is odd | Input number must be positive | Some number | True or False |  |
| H01\_L05\_T09 | To check whether a given number is divisible by another number | Input number must be positive | Some number | True or False |  |
| H01\_L06\_T10 | To calculate sum of digits of a number | Input number must be positive | Some number | Sum of digits |  |
| H01\_L07\_T11 | To find LCM of two numbers | Input numbers must be positive | Some number | LCM |  |
| H01\_L07\_T12 | To find HCF of two numbers | Input numbers must be positive | Some number | HCF |  |
| H01\_L08\_T13 | To find remainder when one number is divided by another | Input numbers must be positive | Some number | Remainder |  |
| H01\_L09\_T14 | To find sum of n natural numbers | Input number must be positive | Some number | Sum of n numbers |  |