**Test Plan**

**Project Name:** Hopping Numbers

* + High level test plan:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ID** | **Description** | **Precondition** | **Expected I/P** | **Expected O/P** | **Actual O/P** |
| T\_HL\_01\_1 | Armstrong number check for standard input | User input | 153 | 1 | 1 |
| T\_HL\_01\_2 | Not armstrong number check for standard input | User input | 154 | 0 | 0 |
| T\_HL\_02 | Factorial of a number check for standard input | User input | 5 | 120 | 120 |
| T\_HL\_03\_1 | Magic number check for standard input | User input | 1234 | 1 | 1 |
| T\_HL\_03\_2 | Not magic number check for standard input | User input | 1235 | 0 | 0 |
| T\_HL\_04\_1 | Neon number check for standard input | User input | 9 | 1 | 1 |
| T\_HL\_04\_2 | Not neon number check for standard input | User input | 8 | 0 | 0 |
| T\_HL\_05\_1 | Perfect number check for standard input | User input | 6 | 1 | 1 |
| T\_HL\_05\_2 | Not perfect number check for standard input | User input | 7 | 0 | 0 |
| T\_HL\_06\_1 | Palindrome number check for standard input | User input | 121 | 1 | 1 |
| T\_HL\_06\_2 | Not palindrome number check for standard input | User input | 123 | 0 | 0 |
| T\_HL\_07\_1 | Prime number check for standard input | User input | 37 | 1 | 0 |
| T\_HL\_07\_2 | Not prime number check for standard input | User input | 10 | 0 | 0 |

* + Low level test plan:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ID** | **Description** | **Precondition** | **Expected I/P** | **Expected O/P** | **Actual O/P** |
| T\_LL\_01\_1 | Armstrong number check for zero | User input | 0 | 1 | 1 |
| T\_LL\_01\_2 | Armstrong number check for negative number | User input | -153 | 0 | 0 |
| T\_LL\_02 | Factorial of zero | User input | 0 | 1 | 1 |
| T\_LL\_03\_1 | Magic number check for zero | User input | 0 | 0 | 0 |
| T\_LL\_03\_2 | Not magic number | User input | -1234 | 0 | 0 |
| T\_LL\_04\_1 | Neon number check for zero | User input | 0 | 0 | 0 |
| T\_LL\_04\_2 | Neon number check for negative number | User input | -9 | 0 | 0 |
| T\_LL\_05\_1 | Perfect number check for zero | User input | 0 | 0 | 0 |
| T\_LL\_05\_2 | Perfect number check for negative number | User input | -6 | 0 | 0 |
| T\_LL\_06\_1 | Palindrome number check for 0 | User input | 0 | 1 | 1 |
| T\_LL\_06\_2 | Palindrome number check for negative number | User input | -121 | 0 | 0 |
| T\_LL\_07\_1 | Prime number check for zero | User input | 0 | 0 | 0 |
| T\_LL\_07\_2 | Prime number check for one | User input | 1 | 1 | 1 |
| T\_LL\_07\_3 | Prime number check for negative number | User input | -37 | 0 | 0 |