|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Conditions** | **Valid Partitions** | **Tags** | **Invalid Partitions** | **Tags** | **Valid Boundaries** | **Tags** | **Invalid Boundaries** | **Tags** |
| Loan Amount | 500 – 5000  5001-10000 | V1  V2 | <500  >10000  Null  Non-Integer  Negative Integer  Zero | X1  X2  X3  X4  X5  X6 | 500  501  2500  4999  5000  5001  5002  7500  9999  10000 | B1  B2  B3  B4  B5  B6  B7  B8  B9  B10 | 499  498  10001  10002 | D1  D2  D3  D4 |
| Period | 1-3  4-5 | V3  V4 | <1 Years  >5 Years  Null  Non-Integer  Negative Integer | X7  X8  X9  X10  X11 | 1  2  3  4  5 | B11  B12  B13  B14  B15 | 0  6  7 | D5  D6  D7 |

**Boundary Tests**

**Decision Table**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Input Conditions** | | | |
| **Loan 500 - 5000** | **T** | **T** | **F** | **F** |
| **Loan 5001 - 10000** | **F** | **F** | **T** | **T** |
| **Period 1-3 Years** | **T** | **F** | **T** | **F** |
| **Period 4-5 Years** | **F** | **T** | **F** | **T** |
| **Interest Rate Applied** | **10 %** | **6%** | **8%** | **5%** |

**Test Cases**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Number** | **Input** | **Expected Outcome** | **Tags Covered** |
| 1 | Loan Amount : 500  Period : 1 Year | Term : 1 Year  Interest Rate : 10%  Monthly Repayment : 45.83  Total Amount: 550 | V1, V3, B1, B11 |
| 2 | Loan Amount : 501  Period : 2 Years | Term : 2 Years  Interest Rate : 10%  Monthly Repayment : 25.05  Total Amount: 601.20 | V1, V3, B2, B12 |
| 3 | Loan Amount : 4999  Period : 3 Years | Term : 3 Years  Interest Rate : 10%  Monthly Repayment : 180.52  Total Amount: 6498.70 | V1, V3, B4, B13 |
| 4 | Loan Amount 5000  Period : 4 Years | Term : 4 Years  Interest Rate : 6%  Monthly Repayment : 129.17  Total Amount: 6200.00 | V1, V4, B5, B14 |
| 5 | Loan Amount : 2500  Period : 5 Years | Term : 5 Years  Interest Rate : 6%  Monthly Repayment : 54.17  Total Amount: 3250.00 | V1, V4, B3, B15 |
| 6 | Loan Amount : 5001  Period : 5 Years | Term : 5 Years  Interest Rate : 5%  Monthly Repayment : 104.19  Total Amount: 6251.25 | V2, V4, B6, B15 |
| 7 | Loan Amount : 7500  Period : 4 Years | Term : 4 Years  Interest Rate : 5%  Monthly Repayment : 187.50  Total Amount: 9000.00 | V2, V4, B3, B14 |
| 8 | Loan Amount : 9999  Period : 1 Year | Term : 1  Interest Rate : 8%  Monthly Repayment : 899.91  Total Amount: 10798.92 | V2, V3, B7, B9 |
| 9 | Loan Amount : 10000  Period : 2 Years | Term : 2 Years  Interest Rate : 8%  Monthly Repayment : 483.33  Total Amount: 11600 | V2, V3, B8, B10 |
| 10 | Loan Amount : 499  Period : 3 Years | Invalid | X1, D1, V3, B13 |
| 11 | Loan Amount : 498  Period : 4 Years | Invalid | X1, D2, V4, B14 |
| 12 | Loan Amount : 0  Period : 3 Years | Invalid | X1, X6, V3, B14 |
| 13 | Loan Amount : Null  Period : 5 Years | Invalid | X3, V4, B15 |
| 14 | Loan Amount : 23T  Period : 1 Year | Invalid | X4, V3, B7 |
| 15 | Loan Amount : -501  Period : 2 Years | Invalid | X5, V3, B8 |
| 16 | Loan Amount : 2500  Period : 0 Years | Invalid | V1, X7, B3, D5 |
| 17 | Loan Amount : 5001  Period : 6 Years | Invalid | V2, X8, B6, D6 |
| 18 | Loan Amount : 9999  Period : 7 Years | Invalid | V2, X8, B9, D7 |
| 19 | `Loan Amount : 499  Period : 0 Years | Invalid | X1, D1, X7, D5 |
| 20 | Loan Amount : 10001  Period : 2 Years | Invalid | X2, D3, V3, B12 |
| 21 | Loan Amount : 10002  Period : 4 Years | Invalid | X2, D4, V3, B14 |
| 22 | Loan Amount 7500  Period : Null | Invalid | V2,X9, B8 |
| 23 | Loan Amount : 2500  Period : T2 | Invalid | V1, B3, X10 |
| 24 | Loan Amount : 5000  Period : -4 Years | Invalid | V1, B5, X11, |
| 25 | Loan Amount : 10001  Period : 0 Years | Invalid | X2, X7, D5, D4 |