**Test conditions**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Conditions** | **Valid Partitions** | **Tag**  **V** | **Invalid**  **Partitions** | **Tag**  **X** | **Valid**  **Boundaries** | **Tag**  **B** | **Invalid**  **Boundaries** | **Tag**  **D** |
| Loan A | Between 500 and 5000 euro  Between a period of 1-3 years | V1  V2 | < 500 euro  > 5000 euro  < 1 year  > 3 years | X1  X2  X3  X4 | 500  5000  1 year  3 years | B1  B2  B3  B4 | 499  5001  Less than a year  Over 3 years | D1  D2  D3  D4 |
| Loan B | Between 5001 and 10000 euro  Between a period of 1-3 years | V3  V4 | < 5001 euro  > 10000 euro  < 1 year  > 3 years | X5  X6  X7  X8 | 5001  10000  1 year  3 years | B5  B6  B7  B8 | 5000  10001  Less than a year  Over 3 years | D5  D6  D7  D8 |
| Loan C | Between 500 and 5000 euro  Between a period of 4-5 years | V5  V6 | < 500 euro  > 5000 euro  < 4 years  > 5 years | X9  X10  X11  X12 | 500  5000  4 years  5 years | B9  B10  B11  B12 | 499  5001  Less than 4 years  Over 5 years | D9  D10  D11  D12 |
| Loan D | Between 5001 and 10000 euro  Between a period of 4-5 years | V7  V8 | < 500 euro  > 5000 euro  < 4 years  > 5 years | X13  X14  X15  X16 | 5001  10000  4 years  5 years | B13  B14  B15  B16 | 5000  10001  Less than 4 years  Over 5 years | D13  D14  D15  D16 |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Input Conditions | | | | | | | | |
| Loan Amount | < 500 | >10000 | 500-10000 | 500-10000 | 500-5000 | 5001-10000 | 500-5000 | 5001-10000 |
| Period of Time | - | - | <1 yr | >5 yrs | 1-3 yrs | 1-3 yrs | 4-5 yrs | 4-5 yrs |
| Output Conditions | | | | | | | | |
| Interest Rate Applied | - | - | - | - | 10% | 8% | 6% | 5% |
| Tags | A | B | C | D | E | F | G | H |

Unsure as to whether input entered at same entry time or in sequential code sequences. In these test cases, I used the latter.

**Test cases**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test case** | **Description** | **Expected result** | **Tags covered** |
| 1 | No loan amount entered | Invalid loan amount | A |
| 2 | €250 entered | Invalid loan amount | A |
| 3 | €12,000 entered | Invalid loan amount | B |
| 4 | €2,400 entered, no time period entered | Invalid period of time | C |
| 5 | €2,750 entered, for 6 months | Invalid period of time | C |
| 6 | €7,800 entered, for 10 years | Invalid period of time | D |
| 7 | €3,000 entered, for 2 years | 10% interest, selects monthly or total, returns  €152.54 or €3661.17 | E |
| 8 | €8,000 entered, for 3 years | 8% interest, selects monthly or total, returns  €306 or €11,000 | F |
| 9 | €2,000 entered, for 4 years | 6% interest, selects monthly or total, returns  €52 or €2,480 | G |
| 10 | €9,000 entered, for 5 years | 5% interest, selects monthly or total, returns 192.5 or 11,550.23 | H |