# Evaluation Rubric :

|  |  |  |
| --- | --- | --- |
| **Evaluation parameter** | **Does not meet specifications** | **Meets specifications** |
| **Problem statement** |  |  |
| Problem Statement must be clearly defined |  |  |
| Expected input and output formats must be described |  |  |
| Explain the problem statement with an example(if applicable) |  |  |
| **Expected input & output** |  |  |
| Minimum of 5 test cases (if applicable) |  |  |
| Coverage |  |  |
| Border condition |  |  |
| Unexpected inputs |  |  |
| **Solution** |  |  |
| The correctness of the solution. |  |  |
| Check for all the elements (tokens) of the problem (Assignment, Arithmetic, conditional, relational, input, output etc) |  |  |
| **Trace Table :** |  |  |
| Columns are variables, conditions, print statements |  |  |
| Order |  |  |
| Trace table for each function(If applicable) |  |  |
| labeling the columns |  |  |
| Coverage (conditions, iterations... etc) |  |  |
| **Final Result** |  |  |
| Executable File Submission |  |  |
| **Executable File** |  |  |
| Check with all test cases |  |  |

# 

**Problem Statement**: **(2 Marks)**

Given number to roman number

Logic: Using predefined function( roman)

**Test cases: (3 Marks)**

|  |  |
| --- | --- |
| **Expected Input** | **Expected Output** |
| 1 | I |
| 10 | X |
| 76 | LXXVI |

**Solution**: **(5 Marks)**

Step 1: Start

Step 2: Input n

Step 3: Compute z=roman(n)

Step 4: Output z

Step 5: End

Pseudocode:

READ n

z = roman(n,"")

END

**Trace Table** : **(5 Marks)**

|  |  |  |
| --- | --- | --- |
| Test case 1: |  |  |
| n | z = roman(n,"") | z |
| 1 | I | I |

|  |  |  |
| --- | --- | --- |
| Test case 2: |  |  |
| n | z = roman(n,"") | z |
| 10 | X | X |
| Test case 3: |  |  |
| n | z = roman(n,"") | z |
| 76 | LXXVI | LXXVI |

**Final Result :** **(2 Marks)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Expected input** | **Expected output** | **Actual output** | **Test result** |
| 1 | I | I | 1 |
| 10 | X | X | 1 |
| 76 | LXXVI | LXXVI | 1 |