**TASK 2 - TESTING DOCUMENTATION**

The **RobotMonitorFinal.rtf** file contains the VDM Model and the **TestRMAdvancedFinal.rtf** contains all the values for testing the VDM model.

Graphical user interface, application

Description automatically generated

The screenshot below shows the values created in the **TestRMAdvancedFinal.rtf** file to save time when testing the functions

Graphical user interface, application, Word

Description automatically generated

**RobotMonitor.rtf Testing**

**1. Testing the invariant**

|  |  |
| --- | --- |
| **Test #** | 1A |
| **Purpose of testing** | To test if the invariant is correct. |
| **Input data** | mk\_RobotMonitor (pos16MD) |
| **Expected result** | BROKEN INVARIANT – wrong syntax |
| **Result** |  |
| **PASS/FAIL** | PASS |

|  |  |
| --- | --- |
| **Test #** | 1B |
| **Purpose of testing** | To test if the invariant is correct. |
| **Input data** | pos16MD |
| **Expected result** | TRUE – position within range with the right syntax |
| **Result** |  |
| **PASS/FAIL** | PASS |

**2. Testing the MoveRight operation**

|  |  |
| --- | --- |
| **Test #** | 2A |
| **Purpose of testing** | To test precondition |
| **Input data** | pos12MR |
| **Expected result** |  |
| **Result** |  |
| **PASS/FAIL** |  |

|  |  |
| --- | --- |
| **Test #** | 2D |
| **Purpose of testing** | To test postcondition |
| **Input data** |  |
| **Expected result** |  |
| **Result** |  |
| **PASS/FAIL** |  |