*Operational Specification Template*

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| **Student** | Erick Francisco González Martínez | **Program #** | 7 |

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| **Scenario Number** | **1** | **User Objective** | Calculate the parameters of multiple regression and generate a better prediction. | |
| **Scenario Objective** | | Test with a correct list of data | | |
| **Source** | **Step** | **Action** | | **Comments** |
| User | 1 | Write ./programa7.out in console. | |  |
| System | 2 | Wait for the user to enter name of the file | |  |
| User | 3 | Enters the name of the file | |  |
| System | 4 | Reads and verifies the name of the file | |  |
| System | 5 | Opens the file | |  |
| System | 6 | Reads the input from the file | |  |
| System | 7 | Calculates the values | |  |
| System | 8 | Displays the values | |  |

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| **Scenario Number** | **2** | **User Objective** | Calculate the parameters of multiple regression and generate a better prediction. | |
| **Scenario Objective** | | Test with a NULL list of data | | |
| **Source** | **Step** | **Action** | | **Comments** |
| User | 1 | Write ./programa7.out in console. | |  |
| System | 2 | Wait for the user to enter name of the file | |  |
| User | 3 | Enters the name of the file | |  |
| System | 4 | Reads and verifies the name of the file | |  |
| System | 5 | Opens the file | |  |
| System | 6 | Reads the input from the file | |  |
| System | 7 | Calculates the values | | The values calculated are initialized in 0 so the values calculated are set to 0 and no operations are performed. |
| System | 8 | Displays the values | | All are null values. |

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| **Scenario Number** | **3** | **User Objective** | Calculate the parameters of multiple regression and generate a better prediction. | |
| **Scenario Objective** | | Test with an invalid file | | |
| **Source** | **Step** | **Action** | | **Comments** |
| User | 1 | Write ./programa7.out in console. | |  |
| System | 2 | Wait for the user to enter name of the file | |  |
| User | 3 | Enters the name of the file | |  |
| System | 4 | Reads and verifies the name of the file | |  |
| System | 5 | Opens the file | | The input given of the file is verified and doesn’t exist but still enters the calculation where the exception is handled. |
| System | 6 | Calculates the values | | The values calculated are initialized in 0 so the values calculated are set to 0 and no operations are performed. |
| System | 7 | Displays the values | | All are null values. |