*Operational Specification Template*

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| **Student** | Roberto Cantu Reyes | **Program #** | 4 |

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| **Scenario ID** | | **1** | **Scenario Name** | Calculate Integral using Simpsons Method | |
| **Objective** | | | Observe normal functionality of the program with valid input | | |
| **Step** | **Source** | | **Action** | | **Values / Messages / Comments** |
| **User** | **System** |
| 1 | x |  | Execute Program | |  |
| 2 |  | x | Ask for x | | Message: “Ingresa el valor de x” |
| 3 | x |  | Give a real value for x equal or greater than 0. | |  |
| 4 |  | x | Validate x is a real number equal or greater than 0 if it is save x. | |  |
| 5 |  | x | Ask for dof | | Message: “Ingresa el valor de dof “ |
| 6 | x |  | Give a real integer value for dof greater than 0. | |  |
| 7 |  | x | Validate dof is an integer value greater than 0, if it is save dof. | |  |
| 8 |  | x | Calculates integral | |  |
| 9 |  | x | Print results in console | |  |
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| **Scenario ID** | | **2** | **Scenario Name** | Calculate Integral using Simpsons Method with invalid value for x. | |
| **Objective** | | | Observe normal functionality of the program with invalid value for x. | | |
| **Step** | **Source** | | **Action** | | **Values / Messages / Comments** |
| **User** | **System** |
| 1 | x |  | Execute Program | |  |
| 2 |  | x | Ask for x | |  |
| 3 | x |  | Enters anything but a real number equal or greater than 0 for x. | |  |
| 4 |  | x | Validate x is a real number equal or greater than 0 if it is save x. | | Message: “Valor incorrecto para x imposible realizar la integral.” |
| 5 |  | x | Finish Program | |  |
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| **Scenario ID** | | **3** | **Scenario Name** | Calculate Integral using Simpsons Method with invalid value for dof. | |
| **Objective** | | | Observe normal functionality of the program with invalid value for dof. | | |
| **Step** | **Source** | | **Action** | | **Values / Messages / Comments** |
| **User** | **System** |
| 1 | x |  | Execute Program | |  |
| 2 |  | x | Ask for x | |  |
| 3 | x |  | Give a real value for x equal or greater than 0. | |  |
| 4 |  | x | Validate x is a real number equal or greater than 0 if it is save x. | |  |
| 5 |  | x | Ask for dof | |  |
| 6 | x |  | Enters anything but a real integer value for dof greater than 0. | |  |
| 7 |  | x | Validate dof is an integer value greater than 0, if it is save dof. | | Message: “Valor incorrecto para dof imposible realizar la integral.” |
| 8 |  | x | Finish program | |  |
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