**Scenario No:** 1

**User objective:** Calculate integral using Simpson method

**System Objective:** Illustrate functionality of the program

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| --- | --- | --- | --- |
| **Source** | **Step** | **Action** | **Comments** |
| User | 1 | Execute program |  |
| System | 2 | Ask for x |  |
| User | 3 | Give an integer value for x |  |
| System | 4 | if x is an integer, save x |  |
| System | 5 | Ask for dof |  |
| User | 6 | Give a real value for dof |  |
| System | 7 | if dof is a real value, save dof |  |
| System | 8 | Calculates value of integral |  |
| System | 9 | Print result |  |

**Scenario No:** 2

**User objective:** Calculate integral using Simpson method giving wrong inputs

**System Objective:** Ask for the user for valid information

|  |  |  |  |
| --- | --- | --- | --- |
| **Source** | **Step** | **Action** | **Comments** |
| User | 1 | Execute program |  |
| System | 2 | Ask for an integer value x |  |
| User | 3 | Give anything but an integer for x | User insert -5 |
| System | 4 | Analyze if x is positive integer |  |
| System | 5 | Print that program need a positive integer |  |
| System | 6 | Program end |  |