1.      Design and implement a C# program that will gather floating point numbers and determine the sum and average of the data entered. The program should use separate methods for inputting the data, calculating the sum, calculating the average, and displaying the results. A sentinel value should be used to indicate the user has completed entering their numbers.  The output should display a message that includes the count of the numbers entered, the sum of the numbers and the average of the numbers. If the sum of the numbers is greater than 100, a warning message should be displayed indicating “values have exceeded a sum 100”.

2.      Additional requirements include:

a.       Be sure to comment your code.

b.      Include a comprehensive set of application test data that you used to test your program. Your test data can be shown in a table that includes input data, expected output, actual output and pass/fail results from the test.

Example application test data:

|  |  |  |  |
| --- | --- | --- | --- |
| **Input** | **Expected Output** | **Actual Output** | **Did Test Pass?** |
| 10.0 20.0 30.0 | Sum = 60.0 Average = 20.0 | Sum = 60.0 Average = 20.0 | Y |
| Additional test cases here. Be sure to test all logic. |  |  |  |
|  |  |  |  |