

Assignment 5

Writing Test Scripts

Write a function that takes several numbers in any list data structure, sorts them in ascending order and returns the sorted list. You are to do unit test by writing a test driver using any programming language. Use of any unit testing tool or framework will be appreciated.

Test outcome will be successful by checking the following:

- i) Test whether the **list of the numbers are not altered** by the testing routine
- ii) Test whether sorting is done in the **correct order**

You have to write the test script for generating the following categories of test data:

- i) Sorting a blank list
- ii) Sorting just one number
- iii) Sorting two numbers
- iv) The size of the list is initialized randomly
- v) The numbers in the list is initialized randomly
- vi) The numbers in the is sorted in ascending order
- vii) The numbers in the is sorted in descending order
- viii) All the numbers in the list are equal

You will get bonus mark if you can add more test cases in addition to the abovementioned ones.