CSC1015F Assignment 7A (Lab Question)

Testing

Assignment Instructions

THIS QUESTION TO BE COMPLETED DURING YOUR LABORATORY SESSION

This assignment involves constructing tests and assembling automated 'doctest' test scripts for path coverage.
See the Assignment 7B Appendix for guidance on 'doctest'.

Question 1 [30 marks]

This question concerns devising a set of tests for a Python function that cumulatively achieve path coverage.

The Amathuba page for this assignment provides a Python module called 'median.py' as an attachment. The module contains a function called 'median_value'. The function accepts three numbers as parameters and returns the median value.

For example, median_value(9, 0, 5) returns the value 5, and median_value(4, 4, 5) returns the value 4.

Your task:

1. Develop a set of 6 test cases that achieve **path coverage.**
2. Code your tests as a doctest script suitable for execution within Wing IDE.
3. Save your doctest script as 'testmedian.py'.

NOTE: make sure the docstring in your script contains a blank line before the closing """". (The automarker requires it.)

NOTE: the median_value() function is believed to be error free.

Submission

Create and submit to the automatic marker a Zip file called ABCXYZ123.zip (where ABCXYZ123 is YOUR student number) containing testmedian.py.

NOTES:

1. FOLDERS ARE NOT ALLOWED IN THE ZIP FILE.
2. As you will submit your assignment to the Automarker, the Assignment tab will still say "Not Complete" or "In Progress" or something similar. THIS IS COMPLETELY NORMAL. IGNORE IT.