CSCI 3060U - Winter 2025

Phase #5 - Back End Unit Testing

Due <u>Friday, April 4, 2025</u>

Overview

In this phase, you will practice white box testing of the Back End you programmed in Phase #4.

For **one** method (with at least one decision or loop) in your Back End you are to create a set of white box unit tests that provide statement coverage. Also, for **one** method (with at least two decisions and one loop) you should create a set of unit tests that provide decision and loop coverage.

For each of the two methods,
- (i)   analyze the code according to the system of the test method required and create a table of cases to be tested
- (ii)   create a set of unit tests to cover each of the test cases you have identified in the table
- (iii)   run all the test cases on your Back End
- (iv)   make a table of the failures uncovered by your tests (if any)

What to Hand In

In this assignment, you will hand in:

(1) A set of <u>unit test cases</u> for each of the two methods (identify which method uses which kind of coverage).

(2) A <u>test report</u> containing the results of the test runs of your Back End for each test, including any failures found.

Marking Scheme

Creation of Unit Test Cases (statement coverage)	3 marks
Creation of Unit Test Cases (decision and loop coverage)	4 marks

Test Report
   Table of results   (2)
   Identification of failures, if any (1)
	3 marks

Total	**10 marks**