## DT228/1 Programming Assignment #1

Due Date: Thursday, November 14<sup>th</sup>, 2013 (5pm)

## **Requirements:**

You are required to develop a program that will simulate a mathematics quiz game. The game will include various features, each of which must be incorporated into your program.

Your program should be menu-driven and must display a main menu when run. The menu should include the following options:

- 1. Enter the number of questions to be asked for this round of the quiz (maximum of 5 questions allowed).
- 2. Start quiz
- 3. Display the number of questions that were answered (i) correctly and (ii) incorrectly for this round.
- 4. Exit Program

## Features to include:

- 1. Your program should continually run and re-display the main menu after each option has completed, i.e. start over again. Only when the customer enters option 4 (i.e. Exit Program), should your program terminate.
- 2. For option 2, your program should display a simple mathematical question and ask the user to enter the answer. After the user has entered their answer, your program should display the correct answer beside the user's answer. Your program should then ask the next question (if there are more to ask) and continue this sequence.

For example:

Question 1: 9/3 + 6 = ?

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You entered: 6 - Wrong!! The correct answer: 9

- 3. After the user selects option 2, then finishes the quiz and your program returns to the main menu, your program should not allow the user to select option 2 again until either option 3 or 4 is selected.
- 4. Try to take account of input errors by the user and display appropriate error messages.

## **Submission details:**

- 1. Submit your program using the assignment listed in the Programming module in Webcourses. This must be submitted on or before Thursday, November 14<sup>th</sup>, 2013 (5pm).
- 2. Extra marks will be awarded for well written code (comments, indentation, whitespace, good use of brackets, etc.,).

**Note:** You are required to demo your program in the lab within 2 weeks following submission. Failure to demo your program will result in a zero mark being recorded.

Late submissions (within 1 week) will be marked out of 50%. No submissions accepted after 1 week and a zero mark recorded.

<u>NB</u> - This is an individual assignment and **NOT** a group one. Do your own work and do not copy the work from a fellow student. Any assignments submitted which are found to be copied will result in both students failing the assignment. Also, any students found to provide their work to other students will fail this assignment. Suspected copying or plagiarising of another piece of work will be dealt with by the DIT code of ethical conduct.