# Introduction to Computing Lab

Assignment # 05: Marks: 10

Due Date: 19th, November 2017

**NOTE:** Do not email me assignments but on slate. Hand written/ Scanned assignments will not be accepted.

#### Question#01:

Write and run a program that reads a six-digit integer and prints the sum of its six digits. Do not use loops only do it using if-else.

Bonus: if number length is less or greater than six then print error on console.

Sample Input: **690125** Sample output: **23** 

### Question#02:

Expand the below sum series up to four terms and store the result into variable x without using any loop

$$x = \sqrt{\sum_{n=1}^{4} \frac{2n^3 + 3n^2 + \sqrt{n}}{5n^3}}$$

#### Question#03:

Write a C++ documented program to perform the role of a quiz maker. The program should display True/False questions, record user's answers, keep the time, and record the scores and more.

Execution of the program should be similar to this:

- 1. Prompt the user to enter his/her name, ID number, and then start the quiz.
- 2. There would be total of 10 random questions, each question contains 10 marks.
- 3. Display first question
- 4. Get answer from the user
- 5. Update user's score if he answered correctly
- 6. Display next question
- 7. Repeat steps 4, 5, and 6 until the final question.
- 8. Record the user's name and ID, total score, and detailed answers into some variables and show them to the screen at the end of quiz.
- 9. Extra credits if your program provides a login option before starting the quiz.

#### **Requirements:**

- 1. In each quiz, your program should display 10 unique questions (no repeats)
- 2. Users have 10 minutes to complete the quiz, after 10 minutes the program should automatically terminate the quiz and report the outputs to screen.

## Sample:



Good Luck <sup>©</sup>