CS 202: IT Workshop I
Assignment I

1. Write a Java program to do the followings:

   a) To perform the addition of two integers, store the result in another integer and display the result.
   b) To subtract one integer from another, store the result in another integer and display the result.
   c) Write one print statement to display the results in a sentence.
      (e.g. The addition of 5 and 2 is 7 and when 2 is subtracted from 5, result is 3)

2. Write a Java program to find and display the largest integer from a set of 5 integers entered using the keyboard. [Hint: Do not use array; use nextInt() method of Scanner class and if-else construct]

3. Write a Java program that accepts marks of 3 subjects of a student as input and declares the performance of the student as follows.
   GOOD: if average is more than 60.0
   OK: if average is more than 30.0 but less than 60.0
   POOR: Otherwise
Perform this for 5 students using a loop.

4. Improve the program of 3 and check whether a user enters any negative mark for a subject. In case of so, prompt the user to re-enter that mark.

5. Write a Java program to find the summation of the digits of an integer entered from the keyboard.

6. Write a Java program to read a sentence entered from the keyboard and to find the number of words in the entered sentence. [Hint: explore the methods of Scanner class and use appropriate method]

7. Write a Java program to allow a user to enter an integer from a set of 5 given integers. Announce the entered integer using a switch-case construct. Also, announce if the entered integer does not belong to the set. [Hint: use 6 cases in switch-case]

Notes:

   1. Run the above programs in Console without using any IDE.
   2. Create only one Class in a File and perform the operations inside the main() function.
   3. You should not import any additional classes/packages other than Scanner class.
   4. You may also try other problems/programs covered in CS101/110 that involve if-else and loop construct.
   5. Follow good programming practice principles as far as possible.