## CSN-103: Fundamentals of Object Oriented Programming Assignment 07

## **General Instructions:**

- a) Whenever required, use **Scanner** class to accept inputs for the user at the runtime.
- b) To submit this assignment: Create a single .zip file containing all the source code (.java) files. Rename the zip as 07\_xxxxxxx where xxxxxxx is your enrollment number.
- c) Send the zip file to oop2019.iitr@gmail.com
- d) Follow indentation while writing programs.
- e) All submissions will be checked for Plagiarism. ANY ATTEMPT TO CHEAT WILL BE SEVERELY PENALIZED.

## **Programming Problems**

- 1) Write a JAVA program that defines two interfaces viz., First and Second. In both interfaces, define one default method Display() which should print the name of the interface in which the method is defined. For example, Display() in interface First should print "Interface First" when called. Create a class Third which also defines a method Display() and the method should print "Class Third" when called. Finally create a class FtoT which should implement interfaces First and Second, and extend class Third. FtoT should define a method PrintAll() which on calling should execute the Display() of First, Second and Third in a sequence.
  - Hint: User super keyword inside PrintAll() to call different versions of Display()
- 2) Create a class Box with three member variables Length, Width, and Height. Define a parameterized constructor which accepts three integers and initialize the variables Length, Width, and Height. Override toString() method of Object class such that calling println for any Box object b as follows:

System.out.println(b);

should print the values of member variables of object **b** as follows:

Length = 10, Width = 20, Height = 30

Deadline for Submission of all the assignments is 10<sup>th</sup> November 2019. Submission of assignments before the deadline is encouraged for timely evaluation.