

CSN-103: Fundamentals of Object Oriented Programming

Assignment 07

General Instructions:

- a) Follow indentation while writing programs.
- b) 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: Use 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 27th January 2020. Submission of assignments before the deadline is encouraged for timely evaluation.