**44-542 Object-Oriented Programming**

**Lab Activity: Sets and Maps.**

This lab covers Sets, and Maps.

The text file, java files and the driver class for this lab are provided to you separately.

Follow the below instructions:

1. Use ‘@’ annotation where necessary.
2. Use proper naming conventions.
3. Write comments for all constructors, methods, and generate Java docs.
4. Create a project named **Lab10SetsAndMaps**, with a package named **setsandmaps**.
5. Add code to **Actor.java** class so that it implements **Comparable<Actor>**. Actors should be compared based on **firstName**. This code should have the setter method and getter methods for all the properties and **toString()** method to print out the each property i.e. **lastName** followed by **firstName** as below.

For Example:

Actor Name: Subramani,Ajith Kumar

1. Add code to **Movie.java** class**.** This code should have the setter methods and getter methods for all the properties and **toString()** method to print out the each property.

For Example:

Name: Vedalam, Director: Siva, Budget: Rs. 50.50 Cr, Length: 160 mins, Producer(s): A. M. Rathnam

1. Copy the class **MovieDriver.java** and **movies.txt** into your project and follow the instructions provided in the **MovieDriver.java** class.

1. Please refer the “SampleOutput.txt” for sample output.