

## CS 387 - Lab Work – 18<sup>th</sup> July

The intent of the lab is to motivate you to use DBs – by NOT using one.  
You will be given two data files with the following data in them:

1. Movie information. This has a set of “:” separated fields in each record (one record per line). The fields are:
  - a. Movie Name
  - b. Year of Release
  - c. Genre (one of Action, Drama, Horror, Thriller, Comedy)
  - d. <actor name>, <actor name>, ....., <actor name>: (note that this last field also ends with a colon).
2. Movie Ratings. This has two fields per record.
  - a. Movie Name
  - b. Rating on a 1-10 scale (1 being the lowest and 10 being the highest)

Your job would be to write a Java program that

- a) Reads the files and stores them in appropriate data structures.
- b) Go into a loop where you ask the user to input one of the following queries with the appropriate parameters:
  - a. Q1 – Who directed the following movie <movie name>. (so the user input would be q1 <movie name>. Example: q1 A View to Kill). You would output the Name of the director.
  - b. Q2 – Which movies had <actor name> act in them? (the user input would be q2 <actor>. Example: q3 Tom Cruise). You would then output a list of movies one per line.
  - c. Q3 – Which movie received the highest rating in <year>. (the user input would be q3 <year>. Example: q2 1982)
  - d. q0 – exits the program.