**Assignment 8 Polymorphism/Abstract Classes**

Project 2 instructs us to make a Movie class with rating, ID, and title instance variables. I added get and set methods for these variables, a toString method, and an overriding equals method that returns true if the ID variables are the same. According to my understanding of the instructions and my understanding of the lesson on abstract classes, the Movie class itself is not the class that would be used in creating objects in the program, so I created the Movie class and calcLateFees method as abstract.

The Action, Drama, and Comedy classes are extensions of the Movie class with no additional variables or parameters. Their only significant change is in giving actual function to the calcLateFees method. Each calcLateFee method has its own lateFee amount, and the method takes an integer representing the number of days the movie is late and returns the product of the lateFee and the number of days. Currently, the method prints a message containing the details in a currency format.

The tests in Main create an instance of each type using the constructor, and then another using the copy constructor. The parameters of the copy are changed with the set methods, and the objects’ details and equals values are printed. Lastly, the output of calcLateFees for each instance is given using 1 day as the argument.

