

Lab Questions on Class and Objects and JAVA BEANS

1. The Java class called `Holiday` is started below. An object of class `Holiday` represents a holiday during the year. This class has three instance variables:
 - `name`, which is a `String` representing the name of the holiday
 - `day`, which is an `int` representing the day of the month of the holiday
 - `month`, which is a `String` representing the month the holiday is in

a) Write a constructor for the class `Holiday`, which takes a `String` representing the name, an `int` representing the day, and a `String` representing the month as its arguments, and sets the class variables to these values.

b) Write a piece of code that creates a `Holiday` instance with the name "Independence Day", with the day "4", and with the month "July".

2. The class `Movie` is started below. An instance of class `Movie` represents a film. This class has the following three class variables:
 - `title`, which is a `String` representing the title of the movie
 - `studio`, which is a `String` representing the studio that made the movie
 - `rating`, which is a `String` representing the rating of the movie (i.e. PG-13, R, etc)

a) Write a constructor for the class `Movie`, which takes a `String` representing the title of the movie, a `String` representing the studio, and a `String` representing the rating as its arguments, and sets the respective class variables to these values.

b) Write a second constructor for the class `Movie`, which takes a `String` representing the title of the movie and a `String` representing the studio as its arguments, and sets the respective class variables to these values, while the class variable `rating` is set to "PG".

c) Write a piece of code that creates an instance of the class `Movie` with the title "Casino Royale", the studio "Eon Productions", and the rating "PG-13".

3. Write a Java Beans Program for the class `BOOK` with name, author, and International Standard Book Number (ISBN)