Programming Assignment 2: Determining Leap Year
(Due: Friday, October 30)

The rule for determining whether a year is a leap year is as follows:
“A year is a leap year if it is divisible by 4, unless it is also divisible by 100 but not 400.
For example, the year 2003 is not a leap year, but 2004 is. The year 1900 is not a leap
year because it is divisible by 100 (but not by 400), but the year 2000 is a leap year
because even though it is divisible by 100, it is also divisible by 400.” (taken from
Programming Project 5.1, p. 263, Lewis & Loftus, Java Software Solutions, 7th ed.)

Write a Java program that requests the user to enter a year and then displays a message stating
that the year is a leap year or that it isn’t. Also, produce an error message for any input value
that is less than 1582 (the year the Gregorian calendar was adopted).

Notes:
- Use the console for both input and output. Prompt the user for the input. Include the
  year in the message displayed.
- Document the program with comments as we have illustrated in the programs
  encountered in the lab assignments.
- Follow the programming style we have illustrated in terms of indentation, meaningful
  identifiers, and spacing.

Turn in:
- Listing of the source code of your program.
- Copy of the output from three executions of the program.
- E-mail a copy of your source code file to your instructor as an e-mail attachment.

Extra Credit:
Extra credit is available if your program can evaluate multiple years. Have the user terminate the
program using an appropriate sentinel value.

The project is due at 4:00 p.m., Friday, October 30.

This assignment is to be completed by each student individually. It is governed by the Help
Policy described below.

Assignment Type: Individual

Help Policy In Effect for This Assignment: Individual Project Without Collaboration.

In particular, you may receive help from the following persons, in addition to an instructor in this
course: NONE. You may use the following materials produced by other students: NONE.