

DUE: 11:59 PM on the specified day

POINTS: 25

PURPOSE: To review Java by writing a Java application that permits data lookup.

DESCRIPTION: Write an application that reads and stores a table of sunrise/sunset times for the year 2008 for Kutztown, and permits the user to look up the sunrise/sunset times for any day of the year.

A table named Kutztown.txt is provided in this project's directory on acad and the web. Inspect this table and devise a method to read it in its raw form, keeping in mind that we will later store its data, and that of several others, in an Oracle database. Since it (and the tables to come) has two indexes, month and day, this should not be overly difficult

Design a graphical user interface that permits the user to input a month and day and outputs the sunrise and sunset times for that day. Input may not be via textfield nor regular button; use swing components such as ComboBox or RadioButton, or other as you see fit. Your output should be well labeled and appear in an appropriate component (JLabel? JTextField?).

Notes:

- Times are to be output using ordinary format, not military as in the data table.
- We will eventually query a web site to obtain this table and several others. Be meticulous in writing your methods for reading the table data.
- This project will be repeated using servlets and JSP, and likely some scripting. Be very modular.
- You must specify a layout, even if it is null. No FlowLayouts. Your application will be run outside an IDE, using java.exe version 1.7.
- Use the Javadoc utility to create a web hierarchy documenting your code. See the Javadoc links at URL: <http://faculty.kutztown.edu/spiegel/Links.htm>. Put your Javadoc in your www/csc521 directory on acad and make sure that you set permissions correctly! Check for that directory NOW. If it isn't there, inform the course instructor today.

Turnin: Your java code, SunInfo.java, and the html file, named index.html. Name your main class SunInfo. Turn in a file named readme.txt that describes design decisions, etc; This file MUST contain links to your Javadocs.